# **OREGON OSHA**

Batch ID:

428

Employer / Loc: 5701115 010 Seq: 004

**Employer Name: POLK COUNTY** 

File Type / No: INSPECTION 317718091

No. of Pages:

Comments:



01317718091004

# Oregon Department of Consumers and Business Services Oregon Occupational Safety and Health Division (OR-OSHA)



# Inspection Report Tue Nov 28, 2017 02:02 PM

Rpt ID	CSHO ID	Supervisor ID	Inspection No.	Opt. Insp. No.
1054193	Y6318	V1883	317718091(93)	Y6318-012-17

Site	nent Name Polk County  820 SW Ash St	Site	(503)623-928	7 Site	
Address	Dallas, OR 97338	Phone	(303)023-926	FAX	
Mailing Address	850 Main St Dallas, OR 97338	Mail Phone		Mail FAX	
Controlling	g Corp	Forting	Em	ployer ID	5701115-010 🗸
Ownership	B. LOCAL GOVERNMENT				
Legal Enti	ty LOCAL GOVERNMENT	•			

Employed in Establishment	30	Advance Notice	?	Category	Health /
Covered by Inspection	4	Union?	<b>载</b> 数	Interviewed?	Yes
Controlled by Employer	350	Walkaround?	Yes		
Primary NAICS	237990	~	NAICS Inspec	ted 2.	37990

Inspection Type	Referral v
Reason No Inspection	
Scope of Inspection	Partial Inspection
Classification	Health Manufacturing

Anticipatory Warrant Served?	Denial Date	Date ReEntered	Date ReDenial	ReEntered
Anticipatory Supoena Served?				

Entry			First Closing Conference	10/25/2017
Opening Conference	08/22/2017	V	Second Closing Conf.	
Walkaround			Exit	
Days On Site	3		Case Closed	10/25/17/
			Citations Issued	No

Related Activity						
Туре	Number	Satisfied				
REFERRAL	203001781	H S				

Type	ID	D	escription
S	1	01-#1	
S	12	Todd Whittaker	
S	22	S-22 PARC	USUSSIES OF SERVICES
S	6	FIXED /	HOU30°17 OR OSHA SCO HOU30°17 OR OSHA

Page 1 of 2 Inspection Report

# Oregon Department of Consumers and Business Services Oregon Occupational Safety and Health Division (OR-OSHA)



# Inspection Report Tue Nov 28, 2017 02:02 PM

CSHO Signature	Sarae Clook	Date 11-28-17
Manager Signature	Ronald & Havelest	Date 11/29/17

MOUSO'17 OR OSHA SCO



# **OREGON OSHA INSPECTION SUPPLEMENT**



	IMIS no.: $317718091$ 2. Opt rpt no.: $16318-012-17$ 3. En Date: $8/22/17$ Time on site: $241$ Time out: $430$ Solutions site: $17$ Solutions site: $17$ Time out: $17$ Ti	np. no.: Travel time		115-01C
7.	Total inspection time:  Legal name: 10 K County Wolc Works		· 	<u></u>
	DBA: E-mail:			
9.	Phone: (503)623-9287 Cell/fax:			
	Site address: 820 SW ASh St. Dallas OL 97338			,
11.	Mailing address: 850 Main St Dallas Of 9-7338	0		
12	Employed in establishment: 30 Covered by inspection: Employed in Oregon: 350 13.	Statewide average I		
	OSHA 300 Logs: year year	ye	_	
	H I H I	, c -	-	
	Hours worked each year:			
	DART rate:		_	
	Formula: H + I x 200,000 ÷ hours worked = DART rate			
15.	Type of operation: Public Works 16. SIC: 17.	NAICS: _	237	790_
18.	Management representatives:  1000 Whitakel  Matt Hawkins  Adm. Serv. Director	Opening	Insp.	Closing
•				
19.	Employee representatives: Title			
	Senoter	. 🗆		
	xerwa	. 🗆		
21.	Photos taken: Yes No Video: Yes No Audio: (# of tapes) Workers' comp. insurance carrier: Number			
	Union name/address:			
	Does employer lease any employees? Yes (a) Leasing co. name:			
24.	Citation copies:			
	PARCCOSE# 18-0038			
CC	MPLIANCE OFFICER: Garnet Cooke Print name	DATE	: 8/2	2/17

# **Department of Consumer and Business Services**

Oregon Occupational Safety and Health Division

# Referral Report

Wed Aug 16, 2017 01:59 PM



Reporting ID	1054193	Previous Activity		Referral Number		203001781			
Establishment Information	Establishment Name	Polk County		Employer ID		5701115-010			
	Site Address	820 Ash St Dallas,		City Code		County Code			
		Site Phone		Site Fax			J		
	Mail Address 850 Main St Dallas, OR 97338								
		Mail Phone		Fax					
Industry & Ownership	Type of Business	COUNTY GOVERNM	IENT	Primary NAICS	237990	No. of Employees	0		
	Ownership	Local Government							
Source	Referred By	State/Local Governm	ent	Date Received		08/15/2017			
	Source of Contact (Name, Location, Affiliation, Telephone Number, Email) Tracie Fitzpatrick, PO Box 14360, Salem, OR, 97309, OERS, 5033786377								
Referral Classification	Health-Serious								

### Hazard Description:

Public Works crew was at Brateng Rd/Elkins Road to work on a culvert when they encountered a pink powdered substance covering an area approximately 12 feet by 3 feet. The material was sampled. Laboratory results showed insecticides Chlorpyrifos and Sulfotepp. Four employees sought medical care.

Referral Action	Send L	etter			Date Letter Sent	Date Respo	(:	Response Received Satisfactory or Not Satisfactory)	Supervisor Assigned
					-				V1883
	Inspec	tion Plar	nned? Yes	If Yes,	Priority:		If N	lo, Reason:	
	Transfe	er To (Na	ame):				•	Transfer Date	8/30/2017
	Transfe	er To Ca	tegory:						•
Strategic Initiatives									
National Emphasis						····	· · ·		
Local Emphasis									
Optional	Туре	ID	Optional I	nformat	ion Value				
Information									
Close Referral									
Comments									



Department of Consumer and Business Services

Oregon Occupational Safety & Health Division (OR-OSHA) 350 Winter Street NE, Room 430

> PO Box 14480 Salem, OR 97309-0405

Phone: 503-378-3272 Toll Free: 1-800-922-2689

> Fax: 503-947-7461 www.orosha.org

Polk County 850 Main St Dallas, OR 97338

**Inspection Number:** 

317718091(93)

Optional Report Number: Y6318-012-17

Employer Number:

5701115-010

Inspection Date(s):

08/22/2017-10/25/2017

The Oregon Occupational Safety and Health Division (OR-OSHA) conducted an inspection of your workplace located at 820 SW Ash St, Dallas, OR 97338. The inspection was to determine if safety or health hazards were present which could cause injury or illness to your employees.

In the course of the inspection, the OR-OSHA representative noted certain conditions which are listed in the following page, which could cause injuries and/or illnesses. Although it is not mandatory to correct them at this time, if the work process, operation, exposure, etc., changes, these conditions could be cited as violations during future inspections. By initiating corrective measures, you could reduce the high cost of human suffering associated with work-related injuries and illnesses.

There may be other hazards present which were not apparent at the time of the inspection. If you need assistance in identifying and/or eliminating health or safety hazards consultative and training services are available to you at no cost through OR-OSHA by calling (503) 378-3272.

Your continuing effort to identify and eliminate work-related hazards is appreciated.

Ronald Haverkost

OR-OSHA Salem Field Office

1340 Tandem Ave NE, Suite 160

fmalQZ Haverlest

PO Box 14513

Salem, OR 97303

### **NOTICE**

Employer Name: Polk County
Employer ID No: 5701115-010
Inspection Number: 317718091(93)
Optional Rpt Num: Y6318-012-17

THE FOLLOWING IS A LIST OF CONDITIONS WHICH COULD CAUSE WORK-RELATED INJURIES OR ILLNESSES TO EMPLOYEES. ALTHOUGH NOT MANDATORY AT THIS TIME THE OREGON OCCUPATIONAL SAFETY AND HEALTH DIVISION ENCOURAGES YOU TO INITIATE CORRECTIVE MEASURES FOR THESE PROBLEM AREAS IN THE INTEREST OF REDUCING THE HIGH COST AND HUMAN SUFFERING ASSOCIATED WITH WORK-RELATED INJURIES AND ILLNESSES.

Item 01 Employees going home in their personal vehicles in contaminated clothing

Providing coveralls for use in an emergency

U.S. Postal Service™  CERTIFIED MAIL® RECE  Domestic Mail Only  For delivery information, visit our website a	And the state of t
Certified Mail Fee  S Extra Services & Fees (check box, add fee as appropriate)	USE
Heturn Receipt (hardcopy)	Here .
Sent To  Street and Apt. No., or PO Box No.  City, State, ZIP+4*  [ESIForm 3800, April 2015] PSN 7530-02-000-9047	

The state of the s	. 7
NOIT CEBTIFIE	COMPLETE THIS SECTION ON DELIVERY
Deptive sample and address on the reverse so that we can return the card to you.  Attach this card to the back of the mailpiece, origin the front if space permits.  POLK COUNTY 850 MAIN ST	A. Signature  Agent  Addressee  R. Received by (Printed Name)  D. Is delivery address different from item 1?  If YES, enter delivery address below:  DEC 4'17 OR DSHA 500
DALLAS OR 97338	3. Service Type  ☐ Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchandise
317718091 Haz Ltr	Insured Mail C.O.D.  4. Restricted Delivery? (Extra Fee)  Yes
2. Artin 7017 0530 0000 3325	3300
PS Form 3811, February 2004 Domestic Re	sturn Receipt 102595-02-M-1540

# 01 HAZARD (non code related) WORKSHEET

Employer Name:

Polk County Public Works

Report No:

Y6318-012-17

An inspection occurred at Polk County Public Works to investigate the Pesticide Analytical Response Center Case #18-0038 of employee exposure to pesticides following a culvert cleaning operation. An evaluation of the incident, and subsequent response identified an area of concern.

After the employees were contacted by the pesticide contaminated mist from the clog concealed within the culvert, the employees returned to the shop for further decontamination prior to going home in their personal vehicles. They went home wearing contaminated clothing. It is recommended that you have on hand in your shop area, coveralls that could be used in an event where an employees workwear is contaminated. This prevents the spread of contamination to the employees' personal vehicles to their homes.

While the provision of emergency use coveralls is not required, it is highly recommended. If you have any additional questions, please contact Oregon OSHA's consultative services section.



Polk County Public Works Y6318-012-17 PARC Case # 18-0038

A partial health inspection was conducted at Polk County Public Works by SrAgHCO Garnet Cooke as a result of a PARC referral. An anticipatory warrant was obtained, as per the Polk County policy to require one, and was served to both Todd Whittaker, Director and Matt Hawkins, Administrative Services Director. The opening conference was then conducted with both as per the opening conference checklist.

The Public Works Department has 30 staff with 350 employees total within the county. There were 4 staff affected by the pesticide exposure.

OERS received the following on August 15, 2017:

Polk County Public Works (PCPW) reported the discovery of a pesticide spill. PCPW crews were at the listed location (Brateng Rd near Elkins Road in Monmouth) to work on a culvert and were exposed to an apparent dumping of pesticides. It's unknown exactly how much was dumped, or when it occurred, but it covered an area approximately 12' by 3'. The material was sampled and sent to a lab in Tigard and the substances were chlorpyrifos and sulfotep. Since the discovery at least 3 employees needed medical attention after being exposed to the material. PCPW's ops plan is to refer the scene to the local fire dept. Polk 1 FD, Neil Olson. The exact location is the 1300 ft west of the east end intersection of Brateng Rd and Elkins Rd. It is an inlet to a culvert that leads to a field tile about 1 mile from flowing water. Unknown if waterways are threatened. No cleanup measures have been taken. Due to the remote location and low usage, the FD did not cone, or tape off the area. Caller advised to report this to the NRC also.

Oregon OSHA received the referral from PARC on August 16<sup>th</sup>. The warrant process began on the 16<sup>th</sup> and was signed by the Judge on the 22<sup>nd</sup> of August. The inspection was opened that day. Site visits to Brateng Road occurred on August 22<sup>nd</sup>, 23<sup>rd</sup> with PARC coordinator Ted Bunch, and on August 24<sup>th</sup> with Geoffrey Brown, State On-Scene Coordinator, Emergency Response Program. The investigation revealed a slightly varied description.

On August 7<sup>th</sup>, a crew of two were working on cleaning culverts using a "jet rod." This devise has a cone that is propelled forward by water shooting in the opposite direction. When it was deployed in the culvert it met an obstruction. The employee on the controls pulled it back, returned to the controls and restarted the device. As it shot forward it sprayed out a pink colored, chemical smelling cloud that hit the bank, and was swirled toward the controller. He received substantial frontal contact. The second employee directly above the culvert received minor contact. They extracted the jet rod and pulled forward up the road where they washed with water and called in to their supervisor to report the incident and returned to the yard. There they washed their face and hands with soap and water, did not change clothes and went home. The employee with the most contact threw away his clothes, shoes and took 3 showers. He experienced almost immediate symptoms that increased in severity. The second employee had minor symptoms. PCPW contacted the sheriff who notified Polk County Fire District 1,who, due to the remote location opted not to restrict the area. The following day, the Director and

Polklounts Public Works 16318 072-17

supervisor of the two employees went to the site and tried to look into the culvert to see what was in there and both immediately experienced symptoms. Upon returning to the yard all four went to the Emurgent Medical Care office in Dallas. There they were informed there was nothing they could do for them because they had no idea what to test for, nor what body fluid to take.

(V)

Northwest Fire Fighters Environmental, Emergency Spill Response were dispatched to collect soil samples at the site on August 8<sup>th</sup> and submitted them for analysis on August 9<sup>th</sup>. On August 15<sup>th</sup>, the results were obtained and showed two toxic organophosphate insecticides and high levels.

Chlorpyrifos levels at 207,000 ppm Sulfotepp levels at 678 ppm

Todd Whittaker then contacted the Oregon Emergency Response System at 1514 hours, and the National Response Center at 1830 hours.

The employee with the greatest exposure sought additional medical care at the Corvallis Occupational Clinic with biological samples taken for organophosphate exposure.

At 0800 on August 16<sup>th</sup>, DEQ issued the cleanup contract with work commencing later that day of scraping surface soils around the culvert. No containers were found. Site visits on August 22<sup>nd</sup> and 23<sup>rd</sup> still revealed heavy strong odors with subsequent notification made to Geoffrey Brown, at DEQ. A second cleanup took place on August 24<sup>th</sup> which consisted of the culvert being jet rodded with water at either end being collected. The soil was retested at four points. SS-1 at 11 o'clock (NW of the culvert), SS-2 slightly to the right of 12 o'clock (North of the culvert), SS-3 at 6 o'clock (S of the culvert) and SS-4 at the top where greenish material had been observed along a separation where the culvert sections had separated. This was termed a "rat hole." These results revealed:

SS-1: 4,4'DDE at 28.9 µg/kg Chlorpyrifos at 101,000 µg/kg

SS-2: Chlorpyrifos at 370 µg/kg

SS-3: 4, 4'DDE at 9.9 μg/kg Chlorpyrifos at 17,600 μg/kg

SS-4: 2,4 D at 320,000  $\mu$ g/kg

DEQ was planning no further action after a cost of approximately \$10.000 with no responsible party identified. The farm immediately south of the location was notified.

The closing conference was conducted by phone with Todd Whittaker on October 25<sup>th</sup>, 2017 as per the closing conference checklist. A hazard letter issued in regards to providing the availability of coveralls for use in an emergency so affected employees would not return home in their personal vehicles in contaminated clothing.



# OREGON OSHA OPENING/CLOSING CONFERENCE

EMPLOYER NAME POR COUNTY PUBLIC WORKS OPERPT NO. 16318-072-17	
OPENING CONFERENCE Full *Abbreviated Date full opening conducted 8/22/17	
1. *Introduction/credentials	
2. *Employer rep Inda & Matt Employee rep	
3. *Explain purpose, nature, and scope of inspection (include expansion of serious)	
4. Loc under Oregon OSHA consultation (7 days prior to 60/30 days after)? Yes NoX	
5. Loc NAICS code? Scheduled NAICS code	
6. Loc MOD rate ≤ 0.50 or less (must have written proof): Yes/rate OHSAS?	
7. Sampling Photos Video Audio	
8. Trade secrets?	
9. Employee interviews (in private) discrimination prohibited	
10. Violations OTS/S/D Reductions (size, history, good faith, immediate)	
11. Closing conference at end of inspection	
/ 12. Records review (min. OSHA 300/300A, 801s)	
13. PPE required by employer for inspection	
* Indicates minimum requirement for an abbreviated opening	
CLOSING CONFERENCE On site Via phone Letter Closing date /0 / 25/_	17
Employer rep. 1000 WHT alie Employee rep.	
1. Employer right to present pertinent information re: violations (included in the report)	
2. Describe alleged violations (identify probability and severity)	
3. Penalties assessed Repeat violations (2X, 5X, 10X, 15X,	20X)
4. Abatement time for each violation (immediate; 7, 14, 21, or 28 days)	
5. Hazard letters WHYPUUS	
6. Citations issued from Salem via certified mail. Abatement time starts upon receipt	
7. Letter of Corrective Action. Due date. Follow-up inspection	
8. Failure to abate violations may result in daily penalties	
9. Employer must post citation (3 days or until abated) where employees can view it	
10. Employer can appeal violation/penalty/abatement time. Employees can appeal abatement time	
11. Citation becomes final order if not appealed within 30 days of receipt	
12. Appeal in writing (appealed items stayed if OTS; serious must be abated)	
13. Informal conference at field office or by phone. Formal hearing	
14. Abatement assistance is available through CO	
15. Abatement extension available	
16. Referrals? To whom?	
17. Variance	
18. Employees protected from discrimination (BOLI)	
19. Oregon OSHA consultation available and their workers' comp. carrier required to provide	
20. Work-related in-patient hospitalization, loss of an eye, and amputation or	
avulsion that results in bone or cartilage loss requires notification within 24 hours	
<sup>↑</sup> 21. Work-related fatality or catastrophe requires notification within 8 hours	



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Polk County Public Works Y6318-012-17

POLK COUNTY OREGON

17 AUG 22 PH 2: 24

TRIAL COURT ADMINISTRATOR ENTERED BY\_\_\_\_\_

## IN THE CIRCUIT COURT OF THE STATE OF OREGON

	III THE CIRCOIT COOK!	or the state of old old old.
5	FOR THE CO	UNTY OF POLK
6	STATE OF OREGON, ex rel OREGON OCCUPATIONAL SAFETY &	Case No. 17 A1702859
7	HEALTH DIVISION of the DEPARTMENT OF CONSUMER & BUSINESS SERVICES,	
8		
9	Petitioner,	
10	v.	MOTION AND APPLICATION FOR INSPECTION WARRANT UNDER
11	POLK COUNTY PUBLIC WORKS,	ORS CHAPTER 654
	Employer.	
12		
13	The Oregon Occupational Safety and H	ealth Division (OR-OSHA) of the Department of
14	Consumer and Business Services, by and throu	gh its attorney, Kyle J. Martin, Senior Assistant
15	Attorney General, hereby moves and makes app	olication to the court for the issuance of an
16	inspection warrant, pursuant to ORS 654.067(3	) and 654.202 to 654.216. This motion is
17	supported by the Affidavit of Garnet Cooke, O	R-OSHA Compliance Officer.
18	DATED this 16 day of August 201	7.
19	Re	espectfully submitted,
20	EI	LLEN F. ROSENBLUM
21	At	torney General
22	-	

Senior Assistant Attorney General Department of Justice 1162 Court Street NE Salem, OR 97301-4096 Email: Kyle.j.martin@state.or.us

Kyle J. Martin, OSB 913723

Page 1 - MOTION AND APPLICATION FOR INSPECTION WARRANT UNDER ORS CHAPTER 654 KJM/pja/JUSTICE.8449470

Polk County Public Works
Y6318-012-17
FILED
POLK COUNTY OREGON

17 AUG 22 PM 2: 24

TRIAL COURT ADMINISTRATOR

In the Circuit Court of the State of Oregon for the County of Polk

In the Matter of the Inspection of:	)	
Polk County Public Works	) ) )	Case No
	)	AFFIDAVIT OF GARNET COOKE

The Oregon Occupational Safety and Health Division (OR-OSHA) of the Department of Consumer and Business Services for the State of Oregon makes application for an administrative inspection warrant pursuant to ORS 654.202 through 654.216, to permit inspection of the workplace of Polk County Public Works, at 820 Ash St, Dallas, OR 97338, as well as the insecticide spill site of 1300 ft. west of the east end intersection of Branteng Rd and Elkins Rd, Dallas, OR.

I, Garnet Cooke, first being duly sworn, state as follows:

Per ORS 654.003, the purpose of the Oregon Safe Employment Act (OSEAct) is to assure safe and healthful working conditions for every working man and woman in Oregon. The Director of the Department of Consumer and Business Services is charged with the administration of the OSEAct pursuant to ORS 654.025. OR-OSHA is authorized by ORS 654.035(4) to establish a program of inspection for places of employment for the purpose of determining whether an employer is furnishing a safe and healthful place of employment in accordance with the OSEAct, its standards, rules, and regulations.

OR-OSHA is responsible for developing and implementing the OR-OSHA inspection program. Per OAR 437-001-0055, inspections are based on reports of imminent danger,



fatalities, catastrophes or accidents, complaints, referrals, programmed inspections and follow-up inspections.

I am a health compliance officer for OR-OSHA. In my capacity as a health compliance officer, I am required to make inspections of places of employment throughout the state of Oregon to verify compliance with safety and health regulations. I am authorized by ORS 654.025, 654.062, and 654.067 to enter, inspect, and investigate in a reasonable manner any establishment or workplace where an employee is performing work. When consent for an inspection cannot be obtained from an employer, OR-OSHA is authorized to obtain an inspection warrant for the purposes of entry and inspection pursuant to ORS 654.202 to 654.216.

Under ORS 654.206(1), an inspection warrant is issued upon a showing of cause.

Under ORS 654.206(2), cause exists if there is probable cause to believe that a workplace condition does not conform with a safety or health statute, ordinance, regulation, rule, standard, or order. Probable cause can be established through the referral of a safety or health violation in the workplace. OAR 437-001-0055(4) states an inspection may be initiated if safety or health violations are observed by an Oregon OSHA employee or other federal, state, or local governmental representative and the nature of the information received indicates the probable validity of the referral.

On August 15, 2017, OR-OSHA received a referral about a hazardous condition located at 1300 ft west of the east end intersection of Branteng Rd and Elkins Rd, Dallas, OR from a source that appears to be reliable because of a report received by the National Response Center stating that employees from the Polk County Public Works office reported

respiratory ailments due to an insecticide spill and were being tested and observed at a 1 2 medical facility. The referral alleges the following: 3 Unknown pink powder substances were found along a road during maintenance work. 4 The substances were later identified as Chlorpyrifos (insecticide) and Sulfotep 5 (insecticide). Individuals reported respiratory ailments due to exposure to these 6 substances. 7 On August 15, 2017, this inspection was assigned to me. I will inspect the spill site 8 noted above as well as the main office of Polk County Public Works, located at 820 Ash 9 Street, Dallas, Oregon, because the exposed employees are based out of this location and 10 records are maintained in this location. 11 Per ORS 654.206, an inspection warrant will be issued if entry into the workplace has 12 been sought and refused, or the facts or circumstances reasonably indicate the inspection will be frustrated if entry is sought without a warrant. Representatives of Polk County 13 14 informed OR-OSHA at the last OR-OSHA inspection in 2016 that future inspections would require a warrant, which indicates this inspection will likely be frustrated if entry is sought 15 16 without a warrant. Due to the size and location of Polk County Public Works, a maximum 10 days will be 17 required to complete the inspection. 18 Therefore, I, Garnet Cooke, a representative of OR-OSHA, request the court issue an 19 inspection warrant pursuant to ORS 654.202 to inspect the workplace of Polk County Public 20 Works located at 820 Ash St, Dallas, OR 97338, and the spill site located at 1300 ft. west of 21 22 the east end intersection of Branteng Rd and Elkins Rd, Dalls, OR, to determine if this



. 1	employer has complied with the Oregon Safe Employment Act, its standards, rules and
2	regulations.
3	I have read this affidavit and swear the contents are true to the best of my knowledge,
4	information, and belief.
5	Harrist Cooke
6 7	Garnet Cooke, Health Compliance Officer
8	Samer Sooke, Fleath Somphanes Smeet
9	8-22-2017
10 11	Date
12	Subscribed and sworn to before me
13	OFFICIAL SEAL  HEATHER NICOLE CHASE  NOTARY PUBLIC - OREGON  COMMISSION NO 926330A
14	MY COMMISSION EXPIRES MARCH 19, 2018
15	Deather n Chase
16	Notary Public
17	My commission expires on:
18	march 19 2018

1 2 3	In the Circuit Court of the State of Oregon for the County of Polk
4 5 6 7 8	In the Matter of the Inspection of:  Polk County Public Works  Case No. 17 A D 02 859
9 10 11 12	) INSPECTION WARRANT
13 14 15 16 17 18 19 20 21	To: ) Garnet Cooke, Compliance Officer ) of the Oregon Occupational Safety and Health Division of the Department of Consumer and Business Services )
22 23	An application has been made by the Oregon Occupational Safety & Health Division (OR-
24	OSHA) of the Department of Consumer & Business Services of the State of Oregon, for an
25	inspection warrant pursuant to ORS 654.202 for the purpose of conducting an inspection
26	authorized by OAR 437-001-0055. The applicant, Garnet Cooke, provided under oath or
27	affirmation a signed affidavit, which is attached and includes factual information and the
28	legal basis for issuance of an inspection warrant. The Court has verified the accuracy of the
29	affidavit by examining Garnet Cooke under oath or affirmation, and has determined that
30	cause exists to inspect the workplace described as the work area(s), site(s), premises,
31	building(s), and/or facilities of:
32 33	

 $(\bar{w})$ 

1 Polk County Public Works

2 1300 ft west of the east end intersection of Branteng Rd and Elkins Rd, Dallas, Oregon, and

the main office located at 820 SW Ash St, Dallas, OR 97338.

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based upon a referral received by OR-OSHA that supports a belief that a condition of non-

conformity with safety or health standards exists at this place of employment. The rules

7 established by Oregon Occupational Safety and Health Division in OAR Chapter 437,

8 Division 1, are being applied on a valid and neutral basis to this particular workplace. The

facts or circumstances reasonably indicate the inspection will be frustrated if entry is sought

without a warrant.

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It is hereby ordered that Garnet Cooke and/or other designated OR-OSHA representatives

enter and inspect the work site located at 1300 ft west of the east end intersection of

Branteng Rd and Elkins Rd, and the main office located at 820 SW Ash St, Dallas, OR, on

any day of the week between the hours of 8:00 am and 6:00 pm, and inspect and

investigate in a reasonable manner and to a reasonable extent. Per OAR 437-001-0090,

this includes, but is not limited to, inspecting all required records, conditions, structures,

machines, materials and methods for compliance with statutes, regulations, rules, standards

and orders; use of photography, videotape, audiotape, or other devices to record conditions;

privately interviewing employees about safety and health conditions; use of interpreters;

taking environmental and personal exposure samples; or other activities which may

determine whether the employer is furnishing to its employees a safe and healthful work

23 environment.



This inspection will be conducted without unreasonably disrupting operations at this work 1 site. Any information obtained or observed which contains or might reveal a trade secret 2 referred to in section 1905, title 18, United States Code, shall be considered confidential per 3 ORS 654.120(3). 4 5 Representatives of the Oregon Occupational Safety & Health Division are hereby 6 commanded to make an inspection for a maximum of 10 day(s). 7 8 Before entry, Garnet Cooke, will present her credentials to an agent of the employer, 9 explain the purpose of the inspection and will present the warrant. A peace officer will assist. 10 11 if requested, in the execution of this inspection warrant. This inspection warrant must be executed and returned to this court within ten (10) days from its date of issuance, unless this 12 court before the expiration of such time extends the time for five (5) days. After the 13 14 expiration of the time prescribed, the warrant, unless executed, is void. 15 16 DATED this 22 day of August 17 18 19 20 21

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# IN THE CIRCUIT COURT OF THE STATE OF OREGON FOR THE COUNTY OF Polk CASE NO. 17AD02859

In the Matter of the Inspection of:

Polk County Public Works 820 Ash St Dallas, OR 97338

#### RETURN OF INSPECTION WARRANT

STATE OF OREGON

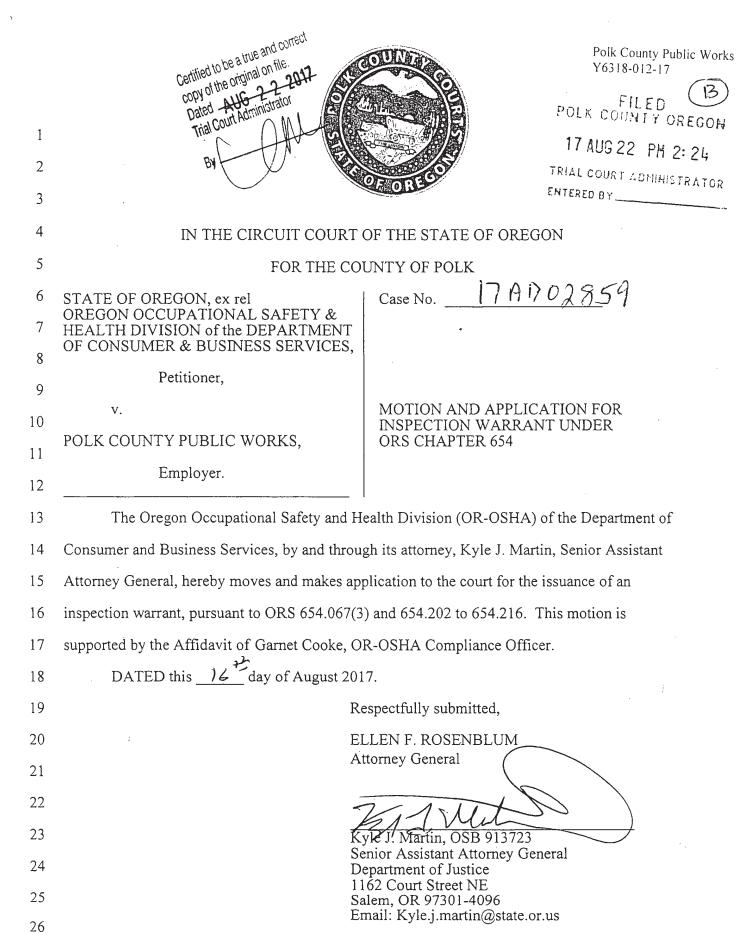
County of Polk

I, Garnet Cooke, Safety/Health Compliance Officer for the Oregon Occupational Safety and Health Division of the Department of Consumer and Business Services for the State of Oregon, certify that I received a copy of the above Inspection Warrant on the 16th day of August, 2017. I served the Inspection Warrant on the 22nd day of August, on Polk County Public Works located at 820 Ash St, Dallas, OR 97338

DATED this 29th day of August, 2017.

Garnet Cooke

Safety/Health Compliance Officer



Page 1 - MOTION AND APPLICATION FOR INSPECTION WARRANT UNDER ORS CHAPTER 654
KJM/pja/JUSTICE.8449470



1 2 3	In the Circuit Court of the State of Oregon for the County of Polk
4 5	In the Matter of the Inspection of:
6 7 8 9	Polk County Public Works  Case No. 17 AD 02 859
10 11 12 13 14 15	) INSPECTION WARRANT
16	To:
17 18 19 20 21 22	Garnet Cooke, Compliance Officer ) of the Oregon Occupational Safety and Health Division ) of the Department of Consumer and Business Services )
23	An application has been made by the Oregon Occupational Safety & Health Division (OR-
24	OSHA) of the Department of Consumer & Business Services of the State of Oregon, for an
25	inspection warrant pursuant to ORS 654.202 for the purpose of conducting an inspection
26	authorized by OAR 437-001-0055. The applicant, Garnet Cooke, provided under oath or
27	affirmation a signed affidavit, which is attached and includes factual information and the
28	legal basis for issuance of an inspection warrant. The Court has verified the accuracy of the
29	affidavit by examining Garnet Cooke under oath or affirmation, and has determined that
30	cause exists to inspect the workplace described as the work area(s), site(s), premises,
31	building(s), and/or facilities of:
32 33	



1 Polk County Public Works

2 1300 ft west of the east end intersection of Branteng Rd and Elkins Rd, Dallas, Oregon, and

the main office located at 820 SW Ash St, Dallas, OR 97338.

3

5 based upon a referral received by OR-OSHA that supports a belief that a condition of non-

6 conformity with safety or health standards exists at this place of employment. The rules

7 established by Oregon Occupational Safety and Health Division in OAR Chapter 437,

8 Division 1, are being applied on a valid and neutral basis to this particular workplace. The

facts or circumstances reasonably indicate the inspection will be frustrated if entry is sought

without a warrant.

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It is hereby ordered that Garnet Cooke and/or other designated OR-OSHA representatives

enter and inspect the work site located at 1300 ft west of the east end intersection of

Branteng Rd and Elkins Rd, and the main office located at 820 SW Ash St, Dallas, OR, on

any day of the week between the hours of 8:00 am and 6:00 pm, and inspect and

investigate in a reasonable manner and to a reasonable extent. Per OAR 437-001-0090.

this includes, but is not limited to, inspecting all required records, conditions, structures.

machines, materials and methods for compliance with statutes, regulations, rules, standards

and orders; use of photography, videotape, audiotape, or other devices to record conditions:

privately interviewing employees about safety and health conditions; use of interpreters;

taking environmental and personal exposure samples; or other activities which may

determine whether the employer is furnishing to its employees a safe and healthful work

environment.



This inspection will be conducted without unreasonably disrupting operations at this work 1 site. Any information obtained or observed which contains or might reveal a trade secret 2 3 referred to in section 1905, title 18, United States Code, shall be considered confidential per 4 ORS 654.120(3). 5 6 Representatives of the Oregon Occupational Safety & Health Division are hereby commanded to make an inspection for a maximum of 10 day(s). 7 8 Before entry, Garnet Cooke, will present her credentials to an agent of the employer, 9 10 explain the purpose of the inspection and will present the warrant. A peace officer will assist, if requested, in the execution of this inspection warrant. This inspection warrant must be 11 executed and returned to this court within ten (10) days from its date of issuance, unless this 12 court before the expiration of such time extends the time for five (5) days. After the 13 14 expiration of the time prescribed, the warrant, unless executed, is void. 15 16 DATED this 22 day of August, 17 18 19 20 21

22

Polk County Public Works Y6318-012-17



POLK COUNTY OREGON

17 AUG 22 PM 2: 24

TRIAL COURT ADMINISTRATOR

In the Circuit Court of the State of Oregon for the County of Polk

In the Matter of the Inspection of:	)	•
Polk County Public Works	) )	Case No. 17AD02859
	)	AFFIDAVIT OF GARNET COOKE
	,	

The Oregon Occupational Safety and Health Division (OR-OSHA) of the Department of Consumer and Business Services for the State of Oregon makes application for an administrative inspection warrant pursuant to ORS 654.202 through 654.216, to permit inspection of the workplace of Polk County Public Works, at 820 Ash St, Dallas, OR 97338, as well as the insecticide spill site of 1300 ft. west of the east end intersection of Branteng Rd and Elkins Rd, Dallas, OR.

I, Garnet Cooke, first being duly sworn, state as follows:

Per ORS 654.003, the purpose of the Oregon Safe Employment Act (OSEAct) is to assure safe and healthful working conditions for every working man and woman in Oregon. The Director of the Department of Consumer and Business Services is charged with the administration of the OSEAct pursuant to ORS 654.025. OR-OSHA is authorized by ORS 654.035(4) to establish a program of inspection for places of employment for the purpose of determining whether an employer is furnishing a safe and healthful place of employment in accordance with the OSEAct, its standards, rules, and regulations.

OR-OSHA is responsible for developing and implementing the OR-OSHA inspection program. Per OAR 437-001-0055, inspections are based on reports of imminent danger,



fatalities, catastrophes or accidents, complaints, referrals, programmed inspections and follow-up inspections.

I am a health compliance officer for OR-OSHA. In my capacity as a health compliance officer, I am required to make inspections of places of employment throughout the state of Oregon to verify compliance with safety and health regulations. I am authorized by ORS 654.025, 654.062, and 654.067 to enter, inspect, and investigate in a reasonable manner any establishment or workplace where an employee is performing work. When consent for an inspection cannot be obtained from an employer, OR-OSHA is authorized to obtain an inspection warrant for the purposes of entry and inspection pursuant to ORS 654.202 to 654.216.

Under ORS 654.206(1), an inspection warrant is issued upon a showing of cause.

Under ORS 654.206(2), cause exists if there is probable cause to believe that a workplace condition does not conform with a safety or health statute, ordinance, regulation, rule, standard, or order. Probable cause can be established through the referral of a safety or health violation in the workplace. OAR 437-001-0055(4) states an inspection may be initiated if safety or health violations are observed by an Oregon OSHA employee or other federal, state, or local governmental representative and the nature of the information received indicates the probable validity of the referral.

On August 15, 2017, OR-OSHA received a referral about a hazardous condition located at 1300 ft west of the east end intersection of Branteng Rd and Elkins Rd, Dallas, OR from a source that appears to be reliable because of a report received by the National Response Center stating that employees from the Polk County Public Works office reported



1 respiratory ailments due to an insecticide spill and were being tested and observed at a 2 medical facility. The referral alleges the following: 3 Unknown pink powder substances were found along a road during maintenance work. The substances were later identified as Chlorpyrifos (insecticide) and Sulfotep 4 (insecticide). Individuals reported respiratory ailments due to exposure to these 5 6 substances. On August 15, 2017, this inspection was assigned to me. I will inspect the spill site 7 noted above as well as the main office of Polk County Public Works, located at 820 Ash 8 9 Street, Dallas, Oregon, because the exposed employees are based out of this location and 10 records are maintained in this location. 11 Per ORS 654.206, an inspection warrant will be issued if entry into the workplace has been sought and refused, or the facts or circumstances reasonably indicate the inspection 12 will be frustrated if entry is sought without a warrant. Representatives of Polk County 13 14 informed OR-OSHA at the last OR-OSHA inspection in 2016 that future inspections would 15 require a warrant, which indicates this inspection will likely be frustrated if entry is sought 16 without a warrant. Due to the size and location of Polk County Public Works, a maximum 10 days will be 17 required to complete the inspection. 18 19 Therefore, I, Garnet Cooke, a representative of OR-OSHA, request the court issue an 20 inspection warrant pursuant to ORS 654.202 to inspect the workplace of Polk County Public Works located at 820 Ash St, Dallas, OR 97338, and the spill site located at 1300 ft. west of 21

the east end intersection of Branteng Rd and Elkins Rd, Dalls, OR, to determine if this

22



1	employer has complied with the Oregon Safe Employment Act, its standards, rules and
2	regulations.
3	I have read this affidavit and swear the contents are true to the best of my knowledge,
4	information, and belief.
5	Marget Cooke
6	Dariet Com
7	Garnet Cooke, Health Compliance Officer
8	
9	8-22-2017
10 11	Date
* :	
12	Subscribed and sworn to before me
13	on August 32, 3017  Official seal Heather nicole chase Notary Public - Oregon Commission no 926330A
14	MY COMMISSION EXPIRES MARCH 19, 2018
15	Gleather n Chase.
16	Notary Public
17	My commission expires on:
18	march 19 2018

## Polk County Public Works Y6318-012-17

## **COOKE Garnet R \* DCBS**

From:

Theodore R Bunch Jr <tbunch@oda.state.or.us>

Sent:

Wednesday, August 16, 2017 10:16 AM

To:

COOKE Garnet R \* DCBS

Subject:

Fwd: NRC#1187340

25)

# Begin forwarded message:

From: Theodore R Bunch Jr < tbunch@oda.state.or.us >

Subject: Fwd: NRC#1187340

Date: August 16, 2017 at 8:25:42 AM PDT

To: Parc <parc@oda.state.or.us>

# Begin forwarded message:

From: VAN-PATTEN Kimberlee < kimberlee.van-patten@state.or.us >

Subject: FW: NRC#1187340

Date: August 15, 2017 at 4:29:41 PM PDT

To: "'pestx@oda.state.or.us" <pestx@oda.state.or.us>, BUNCH Theodore R

<Theodore.R.Bunch@state.or.us>

Here is the corresponding NRC report.

Kimberlee Van Patten
Duty Officer ~ Emergency Response Program
Oregon Dept. of Environmental Quality
503-229-5256 office
971-563-8034 cell
700 NE Multnomah St., Suite #1400
Portland, OR 97232

----Original Message----

From: <u>HQS-PF-fldr-NRC@useg.mil</u> [mailto:HQS-PF-fldr-NRC@useg.mil]

Sent: Tuesday, August 15, 2017 3:47 PM

To: DO Spills \* DEQ Subject: NRC#1187340

NATIONAL RESPONSE CENTER 1-800-424-8802
\*\*\*GOVERNMENT USE ONLY\*\*\*GOVERNMENT USE ONLY\*\*\*

# (22)

## Incident Report # 1187340

#### INCIDENT DESCRIPTION

\*Report taken by: DO ALEXANDER DOMINGO ARANA at 18:30 on 15-AUG-17

Incident Type: FIXED Incident Cause: DUMPING

Affected Area:

Incident was discovered on 07-AUG-17 at 15:10 local incident time.

Affected Medium: LAND COUNTY DITCH

REPORTING PARTY

Name:

TODD WHITAKER

Organization: POLK COUNTY PUBLIC WORKS

Address:

820 SW ASH ST

DALLAS, OR 97338

Email Address: whitaker.todd@co.polk.or.us

PRIMARY Phone: (503)6239287

Type of Organization: LOCAL GOVERNMENT

SUSPECTED RESPONSIBLE PARTY

Name:

UNKNOWN

Type of Organization: UNKNOWN

INCIDENT LOCATION

10630 ELKINS RD County: POLK

City: DALLAS State: OR

ON BRATENG RD; APPX 1300 FT W FROM THE INTERSECTION WITH ELKINS RD

RELEASED MATERIAL(S)

CHRIS Code: NCC Official Material Name: NO CHRIS CODE

Also Known As: CHLORPYRIFOS (INSECTICIDE)

Qty Released: 207000 PART(S) PER MILLION

CHRIS Code: NCC Official Material Name: NO CHRIS CODE

Also Known As: SULFOTEP (INSECTICIDE) Qty Released: 673 PART(S) PER MILLION

#### DESCRIPTION OF INCIDENT

CALLER REPORTED AN UNKNOWN PINK POWDER SUBSTANCES WERE DISCOVERED ALONG A ROAD DITCH DURING MAINTENANCE WORK. IT WAS LATER IDENTIFIED TO BE CHLORPYRIFOS (INSECTICIDE) AT 207,000 PPM AND SULFOTEP (INSECTICIDE) AT 673 PPM. 04 INDIVIDUALS REPORTED RESPIRATORY AILMENTS DUE TO THESE SUBSTANCES AND ARE BEING TESTED AND OBSERVED

### SENSITIVE INFORMATION

INCIDENT DETAILS

Package: N/A Building ID:

Type of Fixed Object: OTHER Power Generating Facility: NO

Generating Capacity:

Type of Fuel: NPDES:

NPDES Compliance: UNKNOWN

**IMPACT** 

Fire Involved: NO Fire Extinguished: UNKNOWN

INJURIES: YES 4 Hospitalized: 4

Empl/Crew:

Passenger:

FATALITIES: NO Empl/Crew:

Passenger:

Occupant:

EVACUATIONS:NO Who Evacuated:

Radius/Area:

Damages: NO

Hours Direction of

Closure Type Description of Closure

Closed Closure

N

Air:

N

Major

Road:

Artery:N

N

Waterway:

N

Track:

Environmental Impact: UNKNOWN

Media Interest: UNKNOWN Community Impact due to Material:

REMEDIAL ACTIONS

TURNED OVER TO LOCAL FIRE DEPARTMENT

Release Secured: YES

Release Rate:

Estimated Release Duration:

**WEATHER** 

Weather: CLEAR, 75°F

Federal:

State/Local: OR ERS

State/Local On Scene: LOCAL FD,

State Agency Number: EMR: 2017-2436



## NOTIFICATIONS BY NRC

CENTERS FOR DISEASE CONTROL (GRASP)

15-AUG-17 18:46 (770)4887100

DHS DEFENSE THREAT REDUCTION AGENCY (CHEMICAL AND BIOLOGICAL TECHNOLOGI 15-AUG-17 18:46 (703)7673477

NTNL PROGRAMS AND PROTECTION DIR (OFC OF INFRASTRUCTURE PROTECTION RGN 15-AUG-17 18:46 (202)3097911

DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE)

15-AUG-17 18:46 (202)3661863

EPA CRIMINAL INVESTIGATION DIVISION (EPA CRIMINAL INVESTIGATION DIV REG 15-AUG-17 18:46 (206)5538306

EPA HQ EMERGENCY OPERATIONS CENTER (MAIN OFFICE)

15-AUG-17 18:46 (202)5643850

EPA HQ EMERGENCY OPERATIONS CENTER (AFTER HOURS SECONDARY) (202)5643850

U.S. EPA X SEATTLE (MAIN OFFICE)

(206)5531263

U.S. EPA X SEATTLE (CID OREGON)

15-AUG-17 18:46 (206)5531263

FEMA REGION 10 (MAIN OFFICE)

15-AUG-17 18:46 (425)4874704

NATIONAL INFRASTRUCTURE COORD CTR (MAIN OFFICE)

15-AUG-17 18:46 (202)2829201

NOAA RPTS FOR OR (MAIN OFFICE)

15-AUG-17 18:46 (206)5264911

NATIONAL RESPONSE CENTER HQ (MAIN OFFICE)

15-AUG-17 18:46

NATIONAL RESPONSE CENTER HQ (AUTOMATIC REPORTS)

15-AUG-17 18:46 (202)2671136

OREGON DEO (EMERGENCY RESPONSE PROGRAM)

15-AUG-17 18:46 (503)2296391

OREGON TITAN FUSION CENTER (FUSION COMMAND CENTER)

15-AUG-17 18:46 (877)6204702

OREGON PUBLIC HEALTH (ENVIRON & OCCUPATIONAL EPIDEMIOLOGY)

15-AUG-17 18:46 (503)7314025

OCCUPATIONAL SAFETY & HEALTH ADMIN (MAIN OFFICE)

(801)9180995

REPORTING PARTY (RP SUBMITTER)

15-AUG-17 18:46

OREGON EMERGENCY MANAGEMENT (MAIN OFFICE)

15-AUG-17 18:46 (800)4520311

USCG DISTRICT 13 (DISTRICT THIRTEEN (DRAT - DRMM))

15-AUG-17 18:46 (206)2207221

Polk County Public Works Y6318-012-17 8/22/17 Aug 7 @ 3 pm Dave Burbenk Ben Brown 1ARC#18-0038 cleaning willers didn't note anything strang - router llash of senk powder uside sep 3-4 Jeet in bull on Dave buttoned down Called into road masher on sile anny Lundy (dir, Superveror headed Straight back Released for day to go get Clean if here or a home naybe arms a peice? ordacted sheriff 7 FD 7 FD telked to Toold - Zig Heismar FD. IIC FD said mormer las Todd lawtron

	Hape? ID no more ablention (26).
	didn't advise what to do
. "	FD non shalant
	Danny & I went out & contact
·	longsted sinus weired felleng
8/8	got all & went to Immediate care
	Suid couldn't 45+ unknown
	Ben little contact
	Dave - worst went to Dr. Ferguson
Lucel	rands confact (uhalatros
lowe	Danny = P. Sinus, dry raspy throat, flu like
	Todal- HSP offwords abdompers
	green
	/ pur
	/ wathole
/	/ washole
	/ washole
	/ wathole
	Mathole
	pint came one of hole

Polk County Public Works Y6318-012-17

	(27)
	When FD went out saw water take
	from farmer holding down grate
	no containers found
	· · · · · · · · · · · · · · · · · · ·
	NRC Cleaned up -
	DERpaid for it
	73-
	Todd Whettaker 623-9287
Det	Danny Lundy
- W	Ben Brown Convallès Clinice
June	Dave Burbanh - Dr. Fergeson (Followup
Callia	Wm. blod 2350
a sud of	
doing	Immediate Care Emergent Medicol Claro
8/8	Immergent Care - 5036233199
	Daves symptom not gone on day?
:	Todd = of -
	Sampling done - la led in 8/15
	Aug 8th afternoon
	Kec'd following monday (fugit" dated
	Aug 8th afternoon  Rec'd joilowing monday (Aug 12th Saled Rec'd monday
	Cirl
	Staped Lown
•	DEQ not satisfied
<u>.</u>	to jet Route line
	Farmer came up a got notified when MWIT
	Turner when you wages when I war

(PB)
Danny has petternes of before cleanup.
EPA- Criemmina
Kon Maxsky
DEQ-Jeff Brown
Roll Fire - New Olson
NRC-center- Petty Officer Domingo Mike Sibley Est
contrictor Dave @ DEQ
Dave Masters ODER Dave Mastros
Contrictor Roman Gigler
Havent had Debriog @ this time.
Emurgent!
William Ferguson no Mederal Case
Corvallis Clenie 109 Ellentale Aus
2350 NW Ste B
= "\(\(\lambda\)\(\)
Centuray Dr 503 6233199
Centuray Dr. 503 6233177  Corvallis
SH 753,97330
778

Polk County Public Works Y6318-012-17

Danny Lundy-- sympto bas: Beerbrers; went to sinus HA > intellydry
- went out on the 8th throat time left 15-20 menul Polk Fire went out & "cleared" it That wenen Went out to confirm Cleaning plaked in the culver 10-15 min peaked in on the tree side w/a flash light. diontherers water from flushing powdereing on top of wate Road masler Dave called - headed with Shop Shurbed fluxlung 19 flux came back smelled od Symptoms - HA fuzzy feelen un & Ben both exportence Der that nexul How clean up (a Sleep Sink stalls Had Layers un removed shirts Partial Clothing remova

Polk County Public Works V6318-012-17

Y6318-012-17 Ever happen before NO in culvert Reported supplicions containers be ) is who we call unknown suk Igntrut out has not Loadside mowing yesd Containers Separahon in Culber Weird greenish due color by crack alway wear Safety glasses, goveso last collection went annual

Polk County Public Works Y6318-012-17 Chem from meth plonfainers wery year been there Skeent= End of day - 3'0 pm Bratenz Rd do all go in Hopped put house in pulled couple feet usially 15 outside of little amout sail again 1008 - 8'awo & Denk 90 stepped back Rtface, frontbady Rtarm

Polk County Public Works pshurt off in truck backside clean thought it ok Ben gota a jew water Explalle all over pt side pure washed opy vest we could putwater fruck far aw a washed up (w shop i scupa wall three clothes away a took inhaled twice Symptoms rum HA, Sinus, Esoplagus sone, Sole severe thout Clerrent phlming up Still Wed noon-felt like flew upser Shormach cramps hurs bruddy left wor

hard to consentrale flu lito sym Wasson 5 vials of do rust water on trucks Hadning screen by road ges under groeend to creek in The time hit a conference bad-went one Common practice mmediately called D PPE: Weng flush has mot frommetty one

,	Y6318-012-17
	nothing on the ground (349)
	Cleanned ditch 2 monthes ago
	Chemical in the tile
	15 poient in the culvert
	Hose in 4 water shot 15 up the
	tiles \$ 3'long bank 3,000 psi
	Cloud up 10-12' drifted
	Grew it was bad toward road
	Called Danny immediately after washing
· · · · · · · · · · · · · · · · · · ·	
	Straping done 2 months and was exposed dirt (20)
•	Was exposed dirt 126>
	10 2
· . •	
•	

Polk County Public Works Y6318-012-17 Ben Brown oud maintanance wor Uver how ensocentes & Contacry Smell prior Steending by end Sillen 3-41 water pin ed on Daw 11 gravel on roug mick parked buck of track my right went Towa

	$\left(3_{0}\right)$
	Samptoms: Couplementes really
	Thisped numbers
	fine phior
	got it the least
,	
• ,	as soon as thenes were Dad, got out
	& work a Chemical
	Dave's the lead, knew cometicus
	not right
	arose up the road to affactory
	a called Danny -

	Y6318-012-17
	Randower down Stram" (37)
	James & Jenice Peters 13030 Elkens &
	13030 gekens &d
	1 (0)3)838-5405
	8/24/17 oque into to Georg Brown a  DER to pass along situation into  to nearest folks.
	DER to pass along situation into
-	to nearest folks.
·	
· · · · · · · · · · · · · · · · · · ·	





 $\begin{array}{c} \textbf{TODD WHITAKER, PE} \\ \textit{Director} \end{array}$ 

PUBLIC WORKS DEPARTMENT

820 S.W. ASH STREET DALLAS, OREGON 97338-2151

503-623-9287 Fax 503-623-0897 whitaker.todd@co.polk.or.us



Geoffrey Brown

State On-Scene Coordinator ... Emergency Response Program Office: (541) 686-7819 Cell: (541) 501-2145

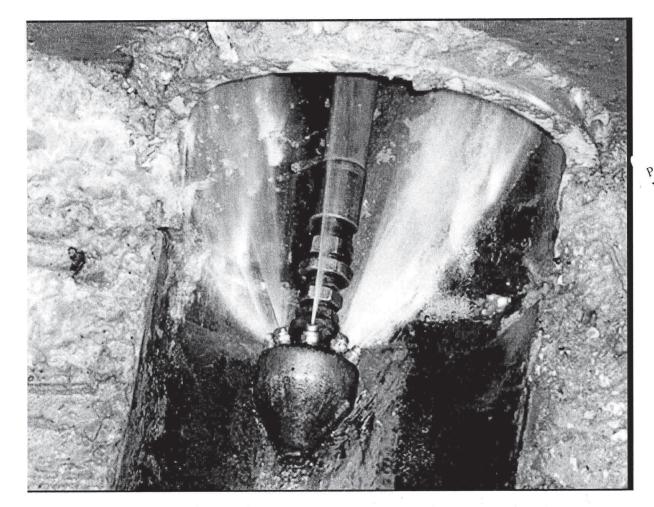


ENVIRONMENTAL QUALITY

Western Region - Eugene 165 East 7th Avenue, Suite 100 Eugene, OR 97401-3049 Fax: (541) 686-7551 In OR: (800) 844-8467

brown.geoff@deq.state.or.us

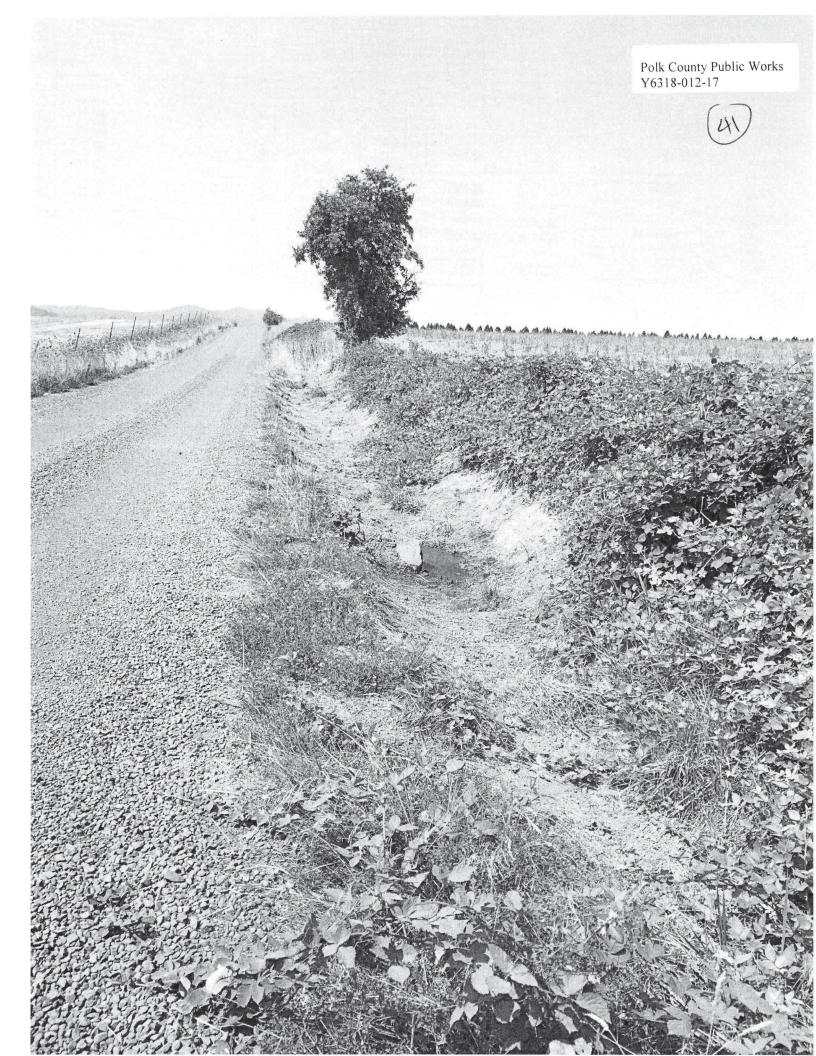
www.oregon.gov/DEQ



Polk County Public Works Y6318-012-17

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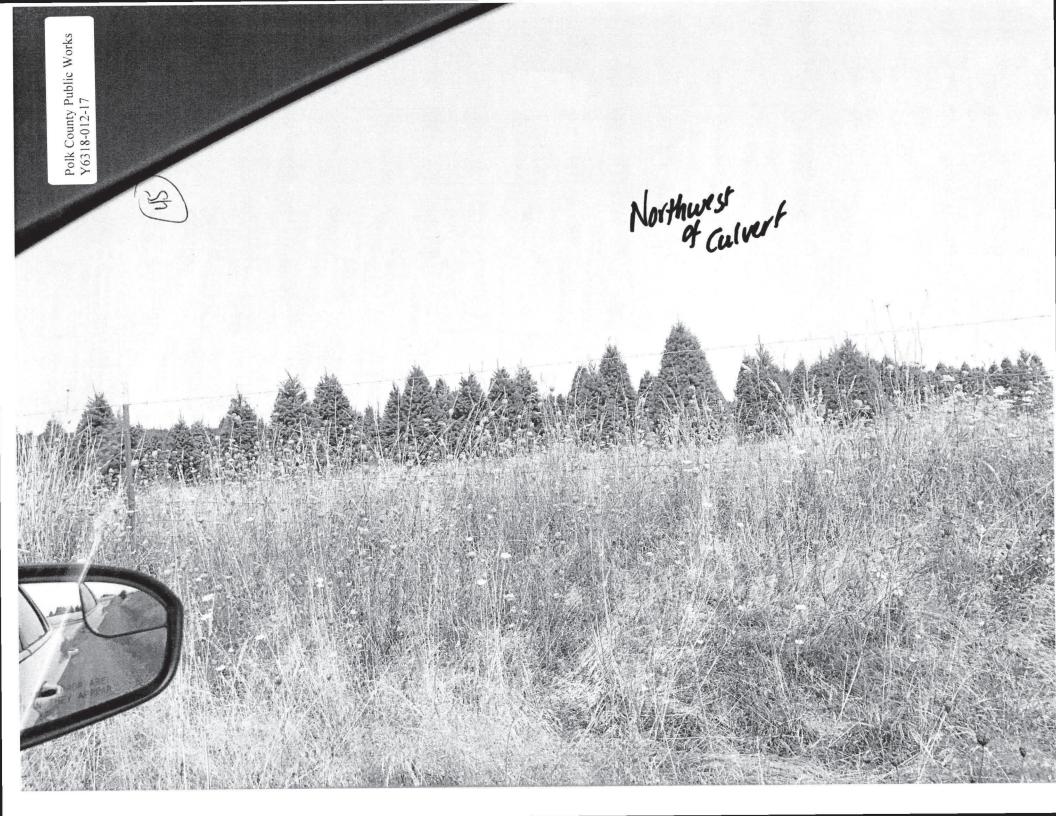
Polk County Public Works Y6318-012-17



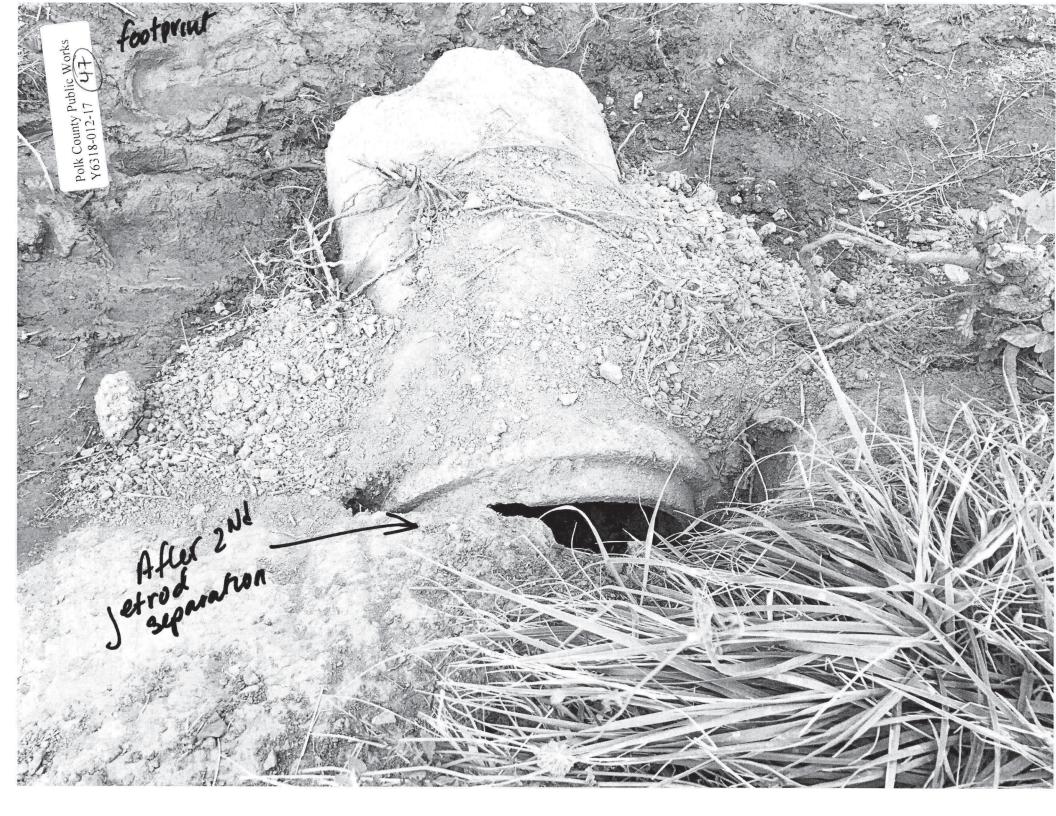




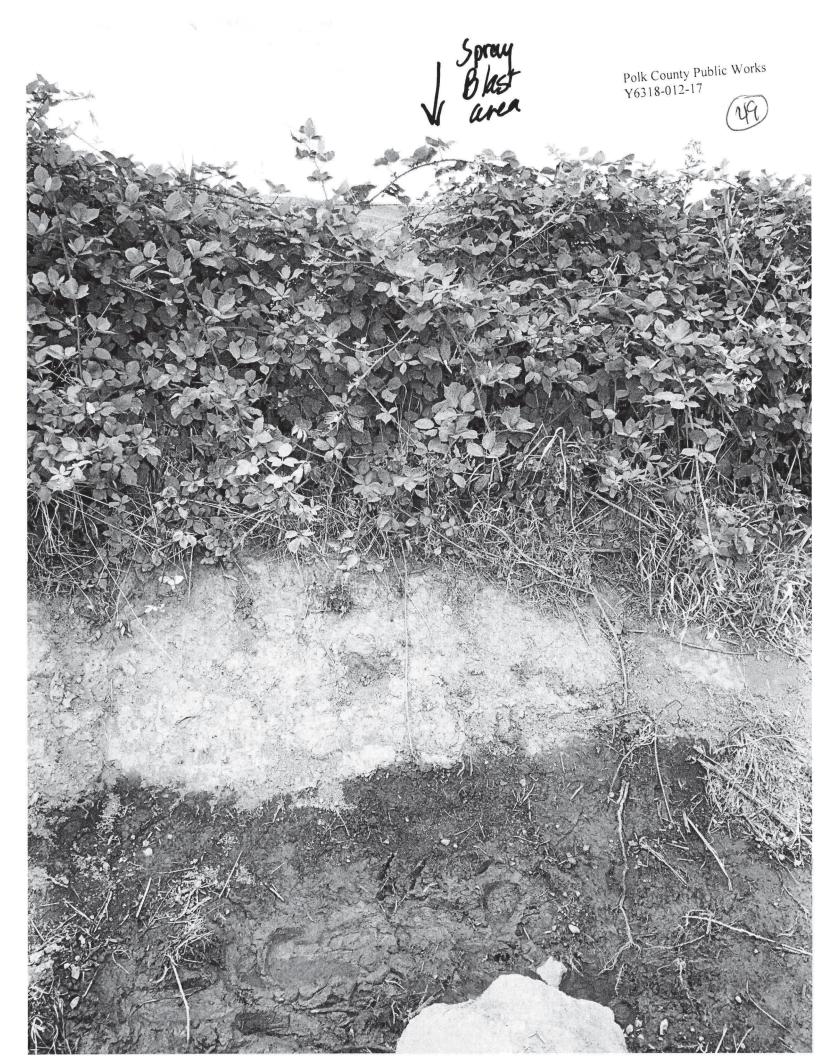










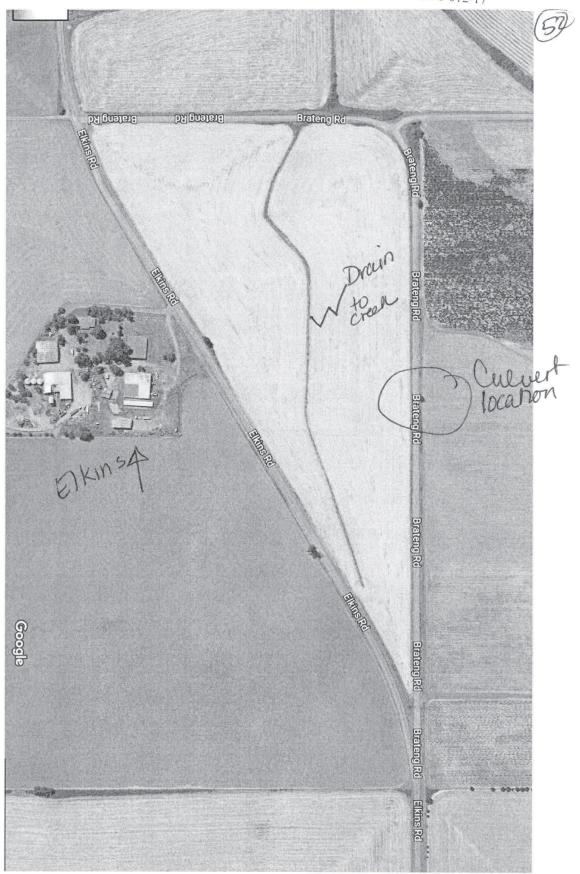




**Incident Annex** 

### IA 4. Hazardous Materials (Accidental Release)

	Hazardous Materials Incident Chec	klist (51)
Property on and	Action Items	Supplemental Information
PF	RE-INCIDENT PHASE	
	Have personnel participate in necessary training and exercises, as determined by Polk County Emergency Management and the ESF 10 – Hazardous Materials Lead, including the Salem Office of State Fire Marshal Regional Hazardous Materials Response Team – HazMat 13.	
	Participate in the County's preparedness activities, seeking understanding of interactions with agencies that would participate in a hazardous materials scenario.	
	Ensure that emergency contacts lists are updated and establish a pre- event duty roster allowing for 24/7 operational support for the County EOC.	
	Inform Emergency Management of any major developments that could adversely affect response operations (e.g., personnel shortages, loss of equipment, etc.).	
RE	SPONSE PHASE	
	In most incidents, the local fire districts will initially respond, assume initial Incident Commander responsibilities, and request activation/deployment of the Hazardous Materials Team.	ESF 10 Annex of the County EOP
	Determine the type, scope, and extent of the hazardous materials incident ( <i>recurring</i> ). Verify that reports and obtain estimates of the area that may be affected.	ICS Form 209: Incident Status Summary
	Notify 911 dispatch, support agencies, adjacent jurisdictions, ESF coordinators, and liaisons of the situation.	
	Assess the type, severity, and size of the incident. If possible, characterize the hazardous material(s) of concern and determine appropriate personal protection equipment requirements.	
	Ensure that a health and safety plan is developed by the designated Safety Officer, including monitoring first responders in accordance with all applicable guidance.	
	Provide support for implementation of applicable Geographic Response Plans established by the Oregon Department of Environmental Quality to guide activities throughout the duration of the incident.	Northwest Area Contingency Plan
	Ensure that proper containment methods have been implemented by the first responders until hazardous materials response teams arrive.	
	Establish access control to the incident site through local law enforcement agencies.	
	If the situation warrants, request activation of the County EOC via the Incident Commander through the County Emergency Manager.	Section 5 of the County EOP





#### Oregon Emergency Response System (OERS)

Mailing Address: PO Box 14360 Salem, OR 97309-6074

Nationwide: 800-452-0311 Local: 503-378-6377 Polk County Public Works Y6318-012-17

E-mail: oers.staff@state.or.us

Fax: (503) 588-1378

		ent Number:				Incident Type: CBT	
Red	ceived:	08/15/2017	at	1514	Taken	Fitzpatrick, Tracie	Τ
Oco	curred:	08/07/2017	at	1510	Ву:	Frizpatrick, tracie	

Location:	Brateng Rd. near Elkins Rd.		Coordination Time:
City:	Monmouth		45
County:	Polk		
Countries	Donald Assuranti Contact Name	Oti	Dhara

Contact Ty	/pe:	Paged:	Answered:	Contact Name	Organization:	Phone
Caller				Todd Whitaker	Polk Co. PW	503-623-9287
Co	omments		·			
Email		1538		DEQ	DEQ	
Co	omments					
Pager		1538		DEQ	DEQ	
Сс	omments					
Email		1538		OHA	OHA	
Co	omments					
Pager		1538		OHA	OHA	
Co	omments					
Pager		1538		OSHA	OSHA	
Co	omments					
Email		1539		AGRI	AGRI	
Сс	omments					
Pager		1539		AGRI	AGRI	
Co	omments					
Notificatio	on	1539		PCC	PCC	
Co	omments					

Incident Description:

Polk Co. PW reported the discovery of a pesticide spill. Polk Co. PW crews were at the listed location to work on a culvert and were exposed to an apparent dumping of pesticides. It's unknown exactly how much was dumped, or when it occurred, but it covered an area approximately 12ft x 3ft. The material was sampled and sent to a lab in Tigard and the substances were "chlorpyrifos" and "sulfotep". Since the discovery at least 3 employees needed medical attention after being exposed to the material. PW's ops plan is to refer the scene to the local fire dept. (Polk 1 FD, Neil Olson, 503-838-1510.) The exact location is the 1300 ft west of the east end intersection of Brateng Rd and Elkins Rd. It is an inlet to a culvert that leads to a field tile about 1 mile from flowing water. Unknown if waterways are threatened. No cleanup measures have been taken. Due to the remote location and low usage, the FD did not cone, or tape, off the area. Caller advised to report this to the NRC also.

Material:	Pesticides	
Unit Of Measure:	UNK	
Quantity Released:	unknown	
Release Source:	FIX	
Potential for further spillage:	None known	
Site secured for safety:	None	
Threat to public waterways:	Possibly	

Polk County Public Works Y6318-012-17

Threat to public safety:	Yes, inhalation may cause symptoms	Y6318-012-17
Threat to property:	Unknown	
Containment steps taken:	Refered to fire dept	



#### **COOKE Garnet R \* DCBS**

From:

Theodore R Bunch Jr <tbunch@oda.state.or.us>

Sent:

Wednesday, August 16, 2017 10:16 AM

To:

COOKE Garnet R \* DCBS

Subject:

Fwd: NRC#1187340



From: Theodore R Bunch Jr < tbunch@oda.state.or.us>

Subject: Fwd: NRC#1187340

Date: August 16, 2017 at 8:25:42 AM PDT

To: Parc <parc@oda.state.or.us>

Begin forwarded message:

From: VAN-PATTEN Kimberlee < kimberlee.van-patten@state.or.us>

Subject: FW: NRC#1187340

Date: August 15, 2017 at 4:29:41 PM PDT

To: "'pestx@oda.state.or.us" <pestx@oda.state.or.us>, BUNCH Theodore R

<Theodore.R.Bunch@state.or.us>

Here is the corresponding NRC report.

Kimberlee Van Patten
Duty Officer ~ Emergency Response Program
Oregon Dept. of Environmental Quality
503-229-5256 office
971-563-8034 cell
700 NE Multnomah St., Suite #1400
Portland, OR 97232

----Original Message-----

From: HQS-PF-fldr-NRC@useg.mil [mailto:HQS-PF-fldr-NRC@useg.mil]

Sent: Tuesday, August 15, 2017 3:47 PM

To: DO Spills \* DEQ Subject: NRC#1187340

NATIONAL RESPONSE CENTER 1-800-424-8802
\*\*\*GOVERNMENT USE ONLY\*\*\*GOVERNMENT USE ONLY\*\*\*





## Information released to a third party shall comply with any applicable federal and/or state Freedom of Information and Privacy Laws

Polk County Public Works Y6318-012-17

## (50)

#### Incident Report # 1187340

#### INCIDENT DESCRIPTION

\*Report taken by: DO ALEXANDER DOMINGO ARANA at 18:30 on 15-AUG-17

Incident Type: FIXED Incident Cause: DUMPING

Affected Area:

Incident was discovered on 07-AUG-17 at 15:10 local incident time.

Affected Medium: LAND COUNTY DITCH

REPORTING PARTY

Name:

TODD WHITAKER

Organization: POLK COUNTY PUBLIC WORKS

Address:

820 SW ASH ST

DALLAS, OR 97338

Email Address: whitaker.todd@co.polk.or.us

PRIMARY Phone: (503)6239287

Type of Organization: LOCAL GOVERNMENT

SUSPECTED RESPONSIBLE PARTY

Name:

UNKNOWN

Type of Organization: UNKNOWN

INCIDENT LOCATION

10630 ELKINS RD County: POLK

City: DALLAS State: OR

ON BRATENG RD; APPX 1300 FT W FROM THE INTERSECTION WITH ELKINS RD

RELEASED MATERIAL(S)

CHRIS Code: NCC Official Material Name: NO CHRIS CODE

Also Known As: CHLORPYRIFOS (INSECTICIDE)

Qty Released: 207000 PART(S) PER MILLION

CHRIS Code: NCC Official Material Name: NO CHRIS CODE

Also Known As: SULFOTEP (INSECTICIDE)

Qty Released: 673 PART(S) PER MILLION

DESCRIPTION OF INCIDENT

CALLER REPORTED AN UNKNOWN PINK POWDER SUBSTANCES WERE DISCOVERED ALONG A ROAD DITCH DURING MAINTENANCE WORK. IT WAS LATER IDENTIFIED TO BE CHLORPYRIFOS (INSECTICIDE) AT 207,000 PPM AND SULFOTEP (INSECTICIDE) AT 673 PPM. 04 INDIVIDUALS REPORTED RESPIRATORY AILMENTS DUE TO THESE SUBSTANCES AND ARE BEING TESTED AND OBSERVED

#### SENSITIVE INFORMATION

**INCIDENT DETAILS** 

Package: N/A Building ID:

Type of Fixed Object: OTHER Power Generating Facility: NO

Generating Capacity:

Type of Fuel: NPDES:

NPDES Compliance: UNKNOWN

**IMPACT** 

Fire Involved: NO Fire Extinguished: UNKNOWN

INJURIES: YES 4 Hospitalized: 4

Empl/Crew:

Passenger:

FATALITIES: NO Empl/Crew:

Passenger:

Occupant:

EVACUATIONS:NO Who Evacuated:

Radius/Area:

Damages: NO

Hours Direction of

Closure Type Description of Closure

Closed Closure

Ν

Air:

N

Major

Road:

Artery:N

Ν

Waterway:

N

Track:

Environmental Impact: UNKNOWN

Media Interest: UNKNOWN Community Impact due to Material:

REMEDIAL ACTIONS

TURNED OVER TO LOCAL FIRE DEPARTMENT

Release Secured: YES

Release Rate:

Estimated Release Duration:

WEATHER

Weather: CLEAR, 75°F

#### ADDITIONAL AGENCIES NOTIFIED

Federal:

State/Local: OR ERS

State/Local On Scene: LOCAL FD,

State Agency Number: EMR: 2017-2436

Polk County Public Works Y6318-012-17



NOTIFICATIONS BY NRC

CENTERS FOR DISEASE CONTROL (GRASP)

15-AUG-17 18:46 (770)4887100

DHS DEFENSE THREAT REDUCTION AGENCY (CHEMICAL AND BIOLOGICAL TECHNOLOGI 15-AUG-17 18:46 (703)7673477

NTNL PROGRAMS AND PROTECTION DIR (OFC OF INFRASTRUCTURE PROTECTION RGN 15-AUG-17 18:46 (202)3097911

DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE)

15-AUG-17 18:46 (202)3661863

EPA CRIMINAL INVESTIGATION DIVISION (EPA CRIMINAL INVESTIGATION DIV REG 15-AUG-17 18:46 (206)5538306

EPA HQ EMERGENCY OPERATIONS CENTER (MAIN OFFICE)

15-AUG-17 18:46 (202)5643850

EPA HQ EMERGENCY OPERATIONS CENTER (AFTER HOURS SECONDARY) (202)5643850

U.S. EPA X SEATTLE (MAIN OFFICE)

(206)5531263

U.S. EPA X SEATTLE (CID OREGON)

15-AUG-17 18:46 (206)5531263

FEMA REGION 10 (MAIN OFFICE)

15-AUG-17 18:46 (425)4874704

NATIONAL INFRASTRUCTURE COORD CTR (MAIN OFFICE)

15-AUG-17 18:46 (202)2829201

NOAA RPTS FOR OR (MAIN OFFICE)

15-AUG-17 18:46 (206)5264911

NATIONAL RESPONSE CENTER HQ (MAIN OFFICE)

15-AUG-17 18:46

NATIONAL RESPONSE CENTER HQ (AUTOMATIC REPORTS)

15-AUG-17 18:46 (202)2671136

OREGON DEO (EMERGENCY RESPONSE PROGRAM)

15-AUG-17 18:46 (503)2296391

OREGON TITAN FUSION CENTER (FUSION COMMAND CENTER)

15-AUG-17 18:46 (877)6204702

OREGON PUBLIC HEALTH (ENVIRON & OCCUPATIONAL EPIDEMIOLOGY)

15-AUG-17 18:46 (503)7314025

OCCUPATIONAL SAFETY & HEALTH ADMIN (MAIN OFFICE)

(801)9180995

REPORTING PARTY (RP SUBMITTER)

15-AUG-17 18:46

OREGON EMERGENCY MANAGEMENT (MAIN OFFICE)

15-AUG-17 18:46 (800)4520311

USCG DISTRICT 13 (DISTRICT THIRTEEN (DRAT - DRMM))

15-AUG-17 18:46 (206)2207221

\*\*\* END INCIDENT REPORT #1187340 \*\*\*
Report any problems by calling 1-800-424-8802
PLEASE VISIT OUR WEB SITE AT <a href="http://www.nrc.uscg.mil">http://www.nrc.uscg.mil</a>

Polk County Public Works Y6318-012-17

Polk County Public Works Y6318-012-17

### OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY EMERGENCY RESPONSE/TIME CRITICAL REMOVAL INCIDENT ORDER

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NRC Environment 5858 Bob Ransdell (800) 337-7455 (503) 289-6568 Bob Ransdell  ATOR: Geoff Brown Western Region HORIZED TO MAKE FIELD CHANCE ESPONSE ACTION J. REMOVAL ACTION  ATED SPILL VASTE MATERIAL	GES WHICH CH GES WHICH EX SIT	XCEED THE TOTAL I.O.  TE INFORMATION  IS Rd.  COUNTY: SUSPECTED SUBSTANC Chlorpyrifos (207k ppi)	POIR  PODER NUMBER  PROJECT MANAGER  PHONE NUMBER:  MOBILE NUMBER:  THE LO. WORK.	17-06  2017-2436  David Mastros 503-229-6712 N/A  541-686-7819 541-501-2145	
S858  Bob Ransdell (800) 337-7455 (503) 289-6568 Bob Ransdelf  ATOR: Geoff Brown Western Region  HORIZED TO MAKE FIELD CHANC  HORIZE	GES WHICH CH GES WHICH EX SIT	FOR Official Use Only INCIDENT CHANGE OERS NUMBER EPA GENERATOR NE DEQ AUTHORIZED F PHONE/PAGER NO(S FAX NUMBER  HANGE THE SCOPE OF  XCEED THE TOTAL LO.  IS Rd. COUNTY: SUSPECTED SUBSTANC Chlorpyrifos (207k ppi)	PHONE NUMBER: MOBILE NUMBER: THE LO. WORK.	David Mastros 503-229-6712 N/A 541-686-7819 541-501-2145	
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(503) 289-6568 Bob Ransdell  ATOR: Geoff Brown Western Region  HORIZED TO MAKE FIELD CHANCHORIZED TO M	GES WHICH EX	PHONE/PAGER NO(S) FAX NUMBER  HANGE THE SCOPE OF  XCEED THE TOTAL I.O.  TE INFORMATION  IS Rd.  COUNTY: SUSPECTED SUBSTANC Chlorpyrifos (207k ppi)	PHONE NUMBER: MOBILE NUMBER: THE I.O. WORK. AMOUNT.	503-229-6712 N/A 541-686-7819 541-501-2145	
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Y: ESPONSE ACTION , REMOVAL ACTION ATED SPILL		SUSPECTED SUBSTANC Chlorpyrifos (207k ppn		- B***	
ESPONSE ACTION , REMOVAL ACTION ATED SPILL		Chlorpyrifos (207k ppn			
REMOVAL ACTION			n), Sulfoten (673ppm)		
ATED SPILL		ESTIMATED QUANTITY			
	- 15	3-5 ft of contaminated of			
	1	ON-SCENE CONTACT P			
AND IC MATERIAL			EMOUNTALING I.		
		n/a MANIFEST TO BE SIGNI	ED BV.		
			CD BY:		
		NRC Personnel		******	
NW MODILIZATION		WASTE DISPOSITION:			
OUR MOBILIZATION		Based on reconumendat	tion of contractor		
uticida contamiention		×			
	a with all auntic	selvla lavua			
	e with an applic	zame taws,			
leaning costs will exceed \$3,000.00					
2017 0800 SCHE	EDULE;	8/16/2017 0800	I.O. AMOUNT	CHANGE ORDER	yy
DCRF			TO DATE	AMOUNT TOTAL	
	M	EST HOURS:	2		2
		<del></del>			3,500.0
	10   2017 0800   SCH	and remediate affected soil  ide and contaminated soil in accordance with all applic leanup costs will exceed \$3,000.00  2017 0800 SCHEDULE:  DCRF G PHASE: RA  1/3  ange order, authorizes the above described wo	and remediate affected soil ide and contaminated soil in accordance with all applicable laws.  leanup costs will exceed \$3,000.00  2017 0800 SCHEDULE: 8/16/2017 0800  EDCRF G PHASE: RA EST HOURS:  11/3 COST:  ange order, authorizes the above described work only. In the event o	and remediate affected soil  ide and contaminated soil in accordance with all applicable laws.  leanup costs will exceed \$3,000.00  2017 0800 SCHEDULE: 8/16/2017 0800 I.O. AMOUNT  DCRF TO DATE  G PHASE: RA EST HOURS: 2  11/3 COST: \$3,500	and remediate affected soil  ide and contaminated soil in accordance with all applicable laws.  leanup costs will exceed \$3,000.00  2017 0800 SCHEDULE: 8/16/2017 0800 I.O. AMOUNT CHANGE ORDER  TO DATE AMOUNT TOTAL  G PHASE: RA EST HOURS: 2  n/a COST: \$3,500 \$  ange order, authorizes the above described work only. In the event of any uncertainty regarding the scope of cleanup requeste

4) DEQ F&O COST RECOVERY COORDINATOR - (503) 229-6977

### Apex Labs

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

Polk County Public Works Y6318-012-17

Saturday, August 12, 2017

Ross McMakin NWFF PO Box 188 Philomath, OR 97370

RE: 095 / 095

Enclosed are the results of analyses for work order <u>A7H0255</u>, which was received by the laboratory on 8/9/2017 at 8:42:00AM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: <a href="mailto:dthomas@apex-labs.com">dthomas@apex-labs.com</a>, or by phone at 503-718-2323.

# Apex Labs

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax



NWFF PO Box 188

Philomath, OR 97370

Project: 095

Project Number: 095

Project Manager: Ross McMakin

Reported:

08/12/17 06:23

#### ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION										
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received						
US-1	A7H0255-01	Soil	08/08/17 11:50	08/09/17 08:42						

### Apex Labs

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax



NWFF

PO Box 188

Philomath, OR 97370

Project: 095

Project Number: 095

Project Manager: Ross McMakin

Reported:

08/12/17 06:23

#### ANALYTICAL SAMPLE RESULTS

		Organochlorine Pesticides by EPA 8081B						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
JS-1 (A7H0255-01RE1)			Matrix: Soil	В	atch: 708056	69		C-05, R-0
Aldrin	ND	64.8	130	mg/kg dry	10000	08/11/17 13.42	EPA 8081B	
alpha-BHC	ND	64.8	130	U	ш	**	ii .	
beta-BHC	ND	64.8	130	п	"		и	
delta-BHC	ND	64.8	130	e	n	D	n	
gamma-BHC (Lindane)	ND	64.8	130	II.	"	п	11	
eis-Chlordane	ND	64.8	130	11	"	er e	u ,	
trans-Chlordane	ND	64.8	130	u	п	D	**	
4,4'-DDD	ND	64.8	130	n	II	II .	D	
4,4'-DDE	ND	64.8	130	п	II.	и	п	
4,4'-DDT	ND	130	130	u	и	ш	u	
Dieldrin	ND	64.8	130	**	n	и	tt	
Endosulfan I	ND	64.8	130	н	II.	п	п	
Endosulfan II	ND	64.8	130	n	n n	н	п	
Endosulfan sulfate	ND	64.8	130	34	11	n	tt	
Endrin	ND	64.8	130	11	"	п	"	
Endrin Aldehyde	ND	64.8	130	n	ıı	н	п	
Endrin ketone	ND	64.8	130	U.	и	n	и	
Heptachlor	ND	64.8	130	n .	n	п	D	
Heptachlor epoxide	ND	64.8	130	25	ш	п	II	
Methoxychlor	ND	194	389	n .	и	"	и	
Chlordane (Technical)	ND	1940	3890	0	и	п	н	
Toxaphene (Total)	ND	1940	3890	11			tt	
Surrogate: 2,4,5,6-TCMX (Surr)			Recovery: %	Limits: 42-129 %	n	и	n	S-01
Decachlorobiphenyl (Surr)			%	Limits: 65-151 %	··	**	u	S-01

#### Polk County Public Works Y6318-012-17

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax



Apex Labs

Philomath, OR 97370

NWFF
PO Box 188
Projec

Project Number: 095
Project Manager: Ross McMakin

Project: 095

Reported:

08/12/17 06:23

#### ANALYTICAL SAMPLE RESULTS

			Reporting					
Analyte	Result	MDL	Limit	Units	Dilution	Date Analyzed	Method	Notes
JS-1 (A7H0255-01)			Matrix: Soil	В	atch: 70805	73		
Azinphos methyl (Guthion)	ND	35.9	71.7	mg/kg dry	100	08/10/17 16:12	8270D OPP	
Coumaphos	ND	35.9	71.7	"	п	н	u u	
Demeton O	ND	35.9	71.7	п	u	11	tt	
Demeton S	ND	35.9	71.7	11	D	U	U	
Diazinon	ND	2290	2290	"	п	п	п	R-02
Dichlorvos	ND	35.9	71.7	"	и	#	и	
Dimethoate	ND	35.9	71.7	н	n	n	п	
Disulfoton	ND	43.0	86.1	**	11	п	II.	
EPN	ND	35.9	71.7	n	н	tt.	н	
Ethoprophos (Prophos)	ND	35.9	71.7	п	n	n	#	
Fensulfothion	ND	35.9	71.7	D	и	п	11	
Fenthion	ND	2440	2440	п	**	ш	п	R-02
Malathion	ND	35.9	71.7	11	: 0	n	н	
Merphos	ND	93.2	93.2	"	и	п	п	R-02
Methyl parathion	ND	35.9	71.7	и	И	41	п	
Mevinphos (Phosdrin)	ND	35.9	71.7	21	II.	II.	n	
Monocrotophos	ND	71.7	71.7	1)	II	п	n	
Naled (Dibrom)	ND	35.9	71.7	n .	11	и	п	
Phorate	ND	35.9	71.7	li .	11	0	н	
Ronnel (Fenchlorphos)	ND	35.9	71.7	11	n	п	"	
Sulfotep	673	35.9	71.7	11	II.	u	п	
Sulprofos (Bolstar)	ND	35.9	71.7	n	14	#	и	
ТЕРР	ND	143	287	44	II.	п	n	
Tetrachlorvinphos (Rabon)	ND	71.7	71.7	n	Ü	и	п	
Tokuthion (Prothiofos)	ND	71.7	71.7	u	"	**	**	
Trichloronate	ND	143	143	11			п	R-02
Surrogate: Tributyl phosphate (Surr)		Re	covery: 643 %	Limits: 50-141 %	п	и	11	S-05
Triphenyl phosphate (Surr)			420 %	Limits: 60-130 %	п	**	и	S-05

DRAFT REPORT

## Polk County Public Works Y6318-012-17

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax



Apex Labs

NWFF PO Box 188 Philomath, OR 97370

Project: 095

Project Number: 095

Project Manager: Ross McMakin

Reported:

08/12/17 06:23

#### ANALYTICAL SAMPLE RESULTS

	Organo	phospho	rous Pesticide	s (OPPs) by	EPA 8270D	(GC/MS)		
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
US-1 (A7H0255-01RE1)			Matrix: Soil	В	atch: 70805	73		
Chlorpyrifos	207000	3590	7170	mg/kg dry	10000	08/10/17 16:49	8270D OPP	B-02
Parathion, ethyl	ND	3590	7170	II	ш	ш	п	

## Polk County Public Works Y6318-012-17

Apex Labs

Tigard, OR 97223
503-718-2323 Phone
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(lelo)

NWFF PO Box 188 Project: 095

Project Number: 095

Reported:

Philomath, OR 97370

Project Manager: Ross McMakin

08/12/17 06:23

#### ANALYTICAL SAMPLE RESULTS

		Tot	al Metals by	EPA 6020 (IC	PMS)			
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
US-1 (A7H0255-01)			Matrix: Soil					
Batch: 7080565						·		
Antimony	ND	0.824	1.65	mg/kg dry	10	08/11/17 20:01	EPA 6020A	
Arsenic	2.12	0.824	1.65	11	11	ij	11	
Barium	53.0	0.824	1.65	11	11	II.	D	
Beryllium	0.240	0.165	0.330	11	11	ш	n	
Cadmium	ND	0.165	0.330	H	U	II .	п	
Chromium	5.22	0.824	1.65	H	п	tt	п	
Cobalt	5.19	0.165	0.330	11	п	41	н	
Copper	12.2	0.824	1.65	D	u	11	11	
Lead	3.98	0.165	0.330	D.	ш	tt	п	
Mercury	ND	0.0659	0.132	II.	ш	(I	tt	
Molybdenum	ND	0.824	1.65	п	u	**	Ħ	
Nickel	3.48	0.824	1.65	H	**	H .	н	
Selenium	ND	0.824	1.65	11	11	n .	11	
Silver	ND	0.165	0.330	ш	H	n		
Thallium	ND	0.165	0.330	н	"	n	tt	
Vanadium	17.1	0.824	1.65	11	11	n	**	
Zinc	14.5	3.30	6.59	п	**	н	n	

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Project: 095

Project Number: 095

Project Manager: Ross McMakin

Reported:

08/12/17 06:23

#### ANALYTICAL SAMPLE RESULTS

			Percent	Dry Weight				
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
US-1 (A7H0255-01)			Matrix: Soil	В	atch: 70805	29		
% Solids	61.2	1.00	1.00	% by Weight	1	08/10/17 07:39	EPA 8000C	

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Project: 095

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Reported: 08/12/17 06:23

#### QUALITY CONTROL (QC) SAMPLE RESULTS

	Organochlorine Pesticides by EPA 8081B											
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7080569 - EPA 3546	/3640A (GF	PC)		_			Soi	l				
Blank (7080569-BLK1)				Prep	ared: 08/	09/17 13:35	Analyzed:	08/11/17 12	2:14			C-05
EPA 8081B											<del></del> .	
Aldrin	ND	0.000909	0.00182	mg/kg wet	1							
alpha-BHC	ND	0.000909	0.00182	П	11							
beta-BHC	ND	0.000909	0.00182	u	и	*						
delta-BHC	ND	0.000909	0.00182	n n	11							
gamma-BHC (Lindane)	ND	0.000909	0.00182	н								
cis-Chlordane	ND	0.000909	0.00182	**	0							
trans-Chlordane	ND	0.000909	0.00182	n .	п							
4,4'-DDD	ND	0.000909	0.00182	п	n							
4,4'-DDE	ND	0.000909	0.00182	u	n							
4,4'-DDT	ND	0.000909	0.00182	И	0							
Dieldrin	ND	0.000909	0.00182	"	n n							
Endosylfan I	ND	0.000909	0.00182	11						***		
Endosulfan II	ND	0.000909	0.00182	II	18							
Endosulfan sulfate	ND	0.000909	0.00182	п	n							
Endrin		0.000909	0.00182	"	n							
Endrin Aldehyde	ND	0.000909	0.00182	" '				***	***			
Endrin ketone	ND	0.000909	0.00182	n	п		***					
Heptachlor	ND	0.000909	0.00182	n	0							
Heptachlor epoxide	ND	0.000909	0.00182	11								
Methoxychlor	ND	0.00273	0.00545	ш	n							
Chlordane (Technical)	ND	0.0273	0.0545	u u	11							
Toxaphene (Total)	ND	0.0273	0.0545	п	п							
Surr: 2.4,5,6-TCMX (Surr)			covery: 57 %	Limits: 42-	129 %	Dih	ution: 1x					
Decachlorohiphenyl (Surr)			113 %		51%		"					
LCS (7080569-BS1)				Prep	ared: 08/	09/17 13:35	Analyzed:	08/11/17 12	2:31			C-05
EPA 8081B												
Aldrin	0.0416	0.00100	0.00200	mg/kg wet	1	0.0500		83	45-136%			
alpha-BHC	0.0478	0.00100	0.00200	**	n.	11		96	45-137%			Q-41
beta-BHC	0.0473	0.00100	0.00200	н	п	II.		95	50-136%			
delta-BHC	0.0488	0.00100	0.00200	n	0	p.		97	47-139%			Q-41
gamma-BHC (Lindane)	0.0519	0.00100	0.00200	ш	н	o o		104	49-135%			Q-41
cis-Chlordane	0.0508	0.00100	0 00200	п	11	0		102	54-133%			
trans-Chlordane		0.00100	0.00200	п	п	п		100	53-135%			
4,4'-DDD	0.0595	0.00100	0.00200	**	п	II	***	119	56-139%			Q-41

DRAFT REPORT

Y6318-012-17 12232 S.W. Garden Place Tigard, OR 97223

Polk County Public Works

503-718-2323 Phone 503-718-0333 Fax

NWFF PO Box 188 Philomath, OR 97370

Project: 095

Project Number: 095

Project Manager: Ross McMakin

Reported: 08/12/17 06:23

#### QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte			D									
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7080569 - EPA 3546/	3640A (GP	PC)					Soil					
LCS (7080569-BS1)				Prep	ared: 08/	09/17 13:35	Analyzed: (	08/11/17 13	2:31			C-05
EPA 8081B		······································								-		
4,4'-DDE	0.0478	0.00100	0.00200	mg/kg wet	10	п		96	56-134%			
4,4'-DDT	0.0638	0.00100	0.00200	11	11	0		128	50-141%			
Dieldrin	0.0572	0.00100	0.00200	"	п	п		114	56-136%			
Endosulfan I	0.0562	0.00100	0.00200	11	ш	n		112	52-132%	+		
Endosulfan II	0.0615	0.00100	0.00200	п	ч	10		123	53-134%			Q-4
Endosulfan sulfate	0.0565	0.00100	0.00200	п	**	n		113	55-136%			Q-4
Endrin	0.0634	0.00100	0.00200	н	"	II.		127	56-140%			
Endrin Aldehyde	0.0518	0.00100	0.00200	11	n n	п		104	35-137%			
Endrin ketone	0.0641	0.00100	0.00200	11	п	11		128	55-136%			Q-4
Heptachlor	0.0530	0.00100	0.00200	п	11	п		106	47-136%			Q-4
Heptachlor epoxide	0.0502	0.00100	0.00200	п	*1	0		100	52-136%			
Methoxychlor	0.0649	0.00300	0.00600	ш	11	n		130	52-143%			
Surr: 2,4,5,6-TCMX (Surr)		Re	covery: 80 %	Limits: 42-1	29 %	Dili	ution: Ix					
Decachlorobiphenyl (Surr)			112 %	65-1	51%		"					
LCS Dup (7080569-BSD1)				Pron	ared: 08/	09/17 13:42	Analyzed: (	18/11/17 11	2.40			C-05, Q-19
EPA 8081B							- Tilling Zou.					
Aldrin	0.0420	0.00100	0.00200	mg/kg wet	1	0.0500		84	45-136%	1	30%	
alpha-BHC		0.00100	0.00200		e	"		90	45-137%	6	30%	Q-4
beta-BHC		0.00100	0.00200	п	**	**		89	50-136%	6	30%	,
delta-BHC		0.00100	0.00200	и	11	11		93	47-139%	5	30%	Q-4
gamma-BHC (Lindane)		0.00100	0.00200	"	11	"		100	49-135%	4	30%	Q-4
cis-Chlordane		0.00100	0.00200	41	11	11		95	54-133%	7	30%	`
trans-Chlordane		0.00100	0.00200	11		п		97	53-135%	4	30%	
4,4'-DDD		0.00100	0.00200	"	п	11		112	56-139%	6	30%	Q-4
4.4'-DDE		0.00100	0.00200	11	11	п		94	56-134%	2	30%	`
4,4'-DDT		0.00100	0.00200	п	41	ø		119	50-141%	7	30%	
Dieldrin		0.00100	0.00200	и	"	n		106	56-136%	8	30%	
Endosulfan I		0.00100	0.00200	n.	,,	0		106	52-132%	6	30%	
Endosulfan II		0.00100	0.00200	"	n	n .		114	53-134%	8	30%	Q-4
Endosulfan sulfate		0.00100	0.00200	11	IJ	II.		108	55-136%	4	30%	Q-4:
Endosuran surrate Endrin		0.00100	0.00200	1)	п	11		118	56-140%	7	30%	2-4
		0.00100	0.00200	11	ıı.	11		99	35-137%	5	30%	
		COLUMN TORRE	G GGZGG					ソソ	33-13/70	3	JU70	
Endrin Aldehyde Endrin ketone		0.00100	0.00200		n			117	55-136%	9	30%	Q-4

DRAFT REPORT

Polk County Public Works Y6318-012-17

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax



Apex Labs

NWFF PO Box 188

Project: 095

Project Number: 095

Philomath, OR 97370

Project Manager: Ross McMakin

Reported: 08/12/17 06:23

#### QUALITY CONTROL (QC) SAMPLE RESULTS

	Organochlorine Pesticides by EPA 8081B											
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7080569 - EPA 3546	/3640A (GF	PC)				-	Soi	I				
LCS Dup (7080569-BSD1)				Pi	repared: 08	/09/17 13:42	Analyzed:	08/11/17 1	2:49			C-05, Q-19
EPA 8081B												
Heptachlor epoxide	0.0482	0.00100	0.00200	mg/kg we	t "	п		96	52-136%	4	30%	
Methoxychlor	0.0709	0.00300	0.00600	n	п	II		142	52-143%	9	30%	
Surr: 2,4,5,6-TCMX (Surr)		Re	covery: 75 %	Limits: 4	12-129 %	Dilı	ttion: Ix					
Decachlorobiphenyl (Surr)			100 %	6	5-151 %		"					

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PO Box 188

Philomath, OR 97370

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Reported:

08/12/17 06:23

#### QUALITY CONTROL (QC) SAMPLE RESULTS

			D.	<u> </u>		G., '1	Carre		0/550		DDD	
Analyte	Result	MDL	Reporting Limit	Units	Dif.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7080573 - EPA 3546							Soil					
Blank (7080573-BLK1)				Prep	ared: 08/	10/17 11:48	Analyzed: (	08/10/17 14	4:20			
8270D OPP												
Azinphos methyl (Guthion)	ND	0.0250	0.0500	mg/kg wet	1							
Chlorpyrifos	0.0265	0.0250	0.0500	((	n							B-02,
Coumaphos	ND	0.0250	0.0500	0	11							
Demeton O	ND	0.0250	0.0500	П	ш							
Demeton S	ND	0.0250	0.0500	П	18							
Diazinon	ND	0.0250	0.0500	п	н							
Dichlorvos	ND	0.0250	0.0500	**	11							
Dimethoate	ND	0.0250	0.0500	li .	0							
Disulfoton	ND	0.0300	0.0600	II.	п							
EPN ·	ND	0.0250	0.0500	, II	и							
Ethoprophos (Prophos)	ND	0.0250	0.0500	**	n							
Fensulfothion	ND	0.0250	0.0500	**	11							
Fenthion	ND	0.0250	0.0500	0								
Malathion	ND	0.0250	0.0500	11	U							
Merphos	ND	0.0250	0.0500	11	u							
Methyl parathion	ND	0.0250	0.0500	n	и							
Mevinphos (Phosdrin)	ND	0.0250	0.0500	II	"							
Monocrotophos	ND	0.0250	0.0500	11	n							
Naled (Dibrom)	ND	0.0250	0.0500	н	n							
Parathion, ethyl	ND	0.0250	0.0500	n	0							
Phorate	ND	0.0250	0.0500	п	и							
Ronnel (Fenchlorphos)	ND	0.0250	0.0500	μ	11							
Sulfotep	ND	0.0250	0.0500	п	11							
Sulprofos (Bolstar)	ND	0.0250	0.0500	11	n							
TEPP	ND	0.100	0.200	n	11							
Tetrachlorvinphos (Rabon)	ND	0.0250	0.0500	11	11							
Tokuthion (Prothiofos)	ND	0.0250	0.0500	0							~~~	
Trichloronate	ND	0.0250	0.0500		0		***					
Surr: Tributyl phosphate (Surr)			covery: 80 %	Limits: 50-	141%		ution: Ix					
Triphenyl phosphate (Surr)		710	83 %		130 %		u					
LCS (7080573-BS1)				Prep	ared: 08/	10/17 11:48	Analyzed: (	08/10/17 14	1:57			
8270D OPP												
Azinphos methyl (Guthion)	0.344	0.0250	0.0500	mg/kg wet	1	0.400		86	38-156%			
Chlorpyrifos	0.379	0.0250	0.0500	0	21	0		95	47-140%			B-0

DRAFT REPORT

Polk County Public Works Y6318-012-17

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax (72)

NWFF

PO Box 188

Philomath, OR 97370

Project: 095

Project Number: 095

Project Manager: Ross McMakin

Reported:

08/12/17 06:23

#### QUALITY CONTROL (QC) SAMPLE RESULTS

			Reporting			Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Dil.	Amount	Result	%REC	Limits	RPD	Limit	Notes
Batch 7080573 - EPA 3546							Soil					
LCS (7080573-BS1)				Prep	ared: 08/	10/17 11:48	Analyzed:	08/10/17 14	:57			
8270D OPP			<del></del> -									
Coumaphos	0.393	0.0250	0.0500	mg/kg wet		#		98	37-160%			
Demeton O	0.0805	0.0250	0.0500	п	H	0.0976		83	43-117%	***		
Demeton S	0.237	0.0250	0.0500	II.	n	0.268		88	II.			
Diazinon	0.356	0.0250	0.0500	"	11	0.400		89	42-134%			
Dichlorvos	0.418	0.0250	0.0500	"		0		105	39-142%			
Dimethoate	0.353	0.0250	0.0500	II	н	0		88	16-139%			
Disulfoton	0.377	0.0300	0.0600	u	11	"		94	28-144%			
EPN	0.404	0.0250	0.0500	п	n	11		101	44-137%			
Ethoprophos (Prophos)	0.396	0.0250	0.0500	H	"	п		99	47-128%			
Fensultothion	0.419	0.0250	0.0500	**	11	11	***	105	27-147%			Q-4
Fenthion	0.366	0.0250	0.0500	**	ш	11		91	44-134%			
Malathion	0.359	0.0250	0.0500	н	а			90	46-137%			
Merphos	0.395	0.0250	0.0500	п	н			99	0-153%			
Methyl parathion	0.393	0.0250	0.0500	u	19	n		98	49-138%			
Mevinphos (Phosdrin)	0.363	0.0250	0.0500	н	D	п		91	12-176%			
Monocrotophos	0.347	0.0250	0.0500	**	n	п		87	65-135%			
Naled (Dibrom)	0.351	0.0250	0.0500	н	11	н		88	0-174%			
Parathion, ethyl	0.377	0.0250	0.0500	n	0	н		94	50-139%			
Phorate	0.389	0.0250	0.0500	II.	a	**		97	23-142%			
Ronnel (Fenchlorphos)	0.356	0.0250	0.0500	II	it.	N		89	45-138%			
Sulfotep	0.376	0.0250	0.0500	и		n		94	52-126%			
Sulprofos (Bolstar)	0.381	0.0250	0.0500	н	11	п		95	48-139%			
ТЕРР	0.333	0.100	0.200	n	11	п		83	30-150%			
Tetrachlorvinphos (Rabon)	0.353	0.0250	0.0500	n		11			54-129%			
Tokuthion (Prothiofos)	0.363	0.0250	0.0500	U	u	11		91	45-136%			
Trichloronate	0.368	0.0250	0.0500	II	a	и		92	37-140%			
Surr: Tributyl phosphate (Surr)			covery: 88 %	Limits: 50-	41%	Dil	ution: 1x		-	***************************************		
Triphenyl phosphate (Surr)			89 %		30 %	,	"					
LCS Dup (7080573-BSD1)				Prep	ared: 08/	10/17 11:48	Analyzed:	08/10/17 15	:35			Q-19
3270D OPP												
Azinphos methyl (Guthion)	0.365	0.0250	0.0500	mg/kg wet	1	0.400		91	38-156%	6	20%	
Chlorpyrifos	0.371	0.0250	0.0500	11	U	tr		93	47-140%	2	20%	B-0
Coumaphos	0.407	0.0250	0.0500	п	Ħ	**		102	37-160%	3	20%	
Demeton O	0.0849	0.0250	0.0500	п	11	0.0976		87	43-117%	5	20%	

DRAFT REPORT

#### Polk County Public Works Y6318-012-17

## Apex Labs

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax



NWFF PO Box 188 Philomath, OR 97370

Project: 095

Project Number: 095

Project Manager: Ross McMakin

Reported: 08/12/17 06:23

#### QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7080573 - EPA 3546							Soil	<u> </u>				
LCS Dup (7080573-BSD1)				Prep	oared: 08/	10/17 11:48	Analyzed: (	08/10/17 1	5:35			Q-15
8270D OPP												
Demeton S	0.225	0.0250	0.0500	mg/kg wet	u	0.268		84	II.	5	20%	
Diazinon	0.358	0.0250	0.0500	п	"	0.400		89	42-134%	0.6	20%	
Dichlorvos	0.401	0.0250	0.0500	н	"	n		100	39-142%	4	20%	
Dimethoate	0.353	0.0250	0.0500	н	n	11		88	16-139%	0.02	20%	
Disulfoton	0.362	0.0300	0.0600	n	н	11		91	28-144%	4	20%	
EPN	0.413	0.0250	0.0500	ш	н	11	···· ,	103	44-137%	2	20%	
Ethoprophos (Prophos)	0.377	0.0250	0.0500	n	u u	n n	`	94	47-128%	5	20%	
Fensulfothion	0.436	0.0250	0.0500	p	"	п		109	27-147%	4	20%	Q
Fenthion	0.363	0.0250	0.0500	0	"	11		91	44-134%	0.7	20%	
Malathion	0.347	0.0250	0.0500	II .	11			87	46-137%	3	20%	
Merphos	0.392	0.0250	0.0500	0	11	п		98	0-153%	0.7	20%	
Methyl parathion	0.388	0.0250	0.0500	11	17	11		97	49-138%	1	20%	
Mevinphos (Phosdrin)	0.376	0.0250	0.0500	11	n	0		94	12-176%	3	20%	
Monocrotophos	0.328	0.0250	0.0500	**	11	n n		82	65-135%	6	20%	
Naled (Dibrom)	0.371	0.0250	0.0500	**	0	п		93	0-174%	5	20%	
Parathion, ethyl	0.375	0.0250	0.0500	п	п	n.		94	50-139%	0.5	20%	
Phorate	0.394	0.0250	0.0500	n		II .		99	23-142%	1	20%	
Ronnel (Fenchlorphos)	0.349	0.0250	0.0500	n	п	п		87	45-138%	2	20%	
Sulfotep	0.380	0.0250	0.0500	II.	"	п		95	52-126%	1	20%	
Sulprofos (Bolstar)	0.364	0.0250	0.0500	II .	**	11		91	48-139%	4	20%	
TEPP	0.331	0.100	0.200	п	**	н		83	30-150%	0.8	20%	
Tetrachlorvinphos (Rabon)	0.354	0.0250	0.0500	п	0	**		89	54-129%	0.5	. 20%	
Tokuthion (Prothiofos)	0.356	0.0250	0.0500	н	**	n		89	45-136%	2	20%	
Trichloronate	0.357	0.0250	0.0500	11	"	n		89	37-140%	3	20%	
Surr: Tributyl phosphate (Surr)		Re	covery: 89 %	Limits: 50-	141%	Dill	ution: 1x					

60-130 %

85 %

DRAFT REPORT

Triphenyl phosphate (Surr)

Polk County Public Works Y6318-012-17

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax (74)

NWFF PO Box 188 Philomath, OR 97370

Project: 095

Project Number: 095 Project Manager: Ross McMakin Reported:

08/12/17 06:23

#### QUALITY CONTROL (QC) SAMPLE RESULTS

			Tota	Metals by	EPA 60:	20 (ICPMS	)			. "		
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7080565 - EPA 3051A							Soi	l				
Blank (7080565-BLK1)				Prep	oared: 08/	10/17 09:23	Analyzed:	08/11/17 1	8:41			
EPA 6020A												
Antimony	ND	0.500	1.00	mg/kg wet	10			*				
Arsenic	ND	0.500	1.00	п	н							
Barium	ND	0.500	1.00	а	11							
Beryllium	ND	0.100	0.200	а	n							
Cadmium	ND	0.100	0.200	**	"							
Chromium	ND	0.500	1.00	ir	п							
Cobalt	ND	0.100	0.200	н	п							
Copper	ND	0.500	1.00	п	n							
Lead	ND	0.100	0.200	н	u							
Mercury	ND	0.0400	0.0800		п							
Molybdenum	ND	0.500	1.00	п	**							
Nickel	ND	0.500	1.00	æ	11							
Selenium	ND	0.500	1.00	11	n							
Silver	ND	0.100	0.200	n	п							
Thallium	ND	0.100	0.200	H	0							
Vanadium	ND	0.500	1.00	II .	et e							
Zinc	ND	2.00	4.00	п	11							
.CS (7080565-BS1)				Pre	oared: 08/	10/17 09:23	Analyzed:	08/11/17 1	8:45			
CPA 6020A				,								
Antimony	26.9	0.500	1.00	mg/kg wet	10	25.0		108	80-120%			
Arsenic	51.4	0.500	1.00	ft	n	50.0		103	ш			
Barium	51.7	0.500	1.00	#	"	U		103	u			
Beryllium	27.0	0.100	0.200	11	"	25.0		108	11			
Cadmium	53.7	0.100	0.200	11	ш	50.0		107	tt.			
Chromium	48.8	0.500	1.00	11	п	ш		97	**			
Cobalt	52.4	0.100	0.200		n	u		105	11			
Copper	52.5	0.500	1.00	п	п	"		105	D			
Lead	55.7	0.100	0.200	п	**	**		111	ш			
Mercury	1.12	0.0400	0.0800	U	**	1.00		112	u u			
Molybdenum	24.9	0.500	1.00	U	Ħ	25.0		100	n			
Nickel	52.1	0.500	1.00	п	**	50.0		104	0			
Selenium	28.9	0.500	1.00	tt	11	25.0		116	u			
Silver	25.9	0.100	0.200	**	"	II.		104	11			
Thallium	28.0	0.100	0.200	"		n,		112	17			

DRAFT REPORT

Polk County Public Works Y6318-012-17

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax



Apex Labs

NWFF PO Box 188 Philomath, OR 97370

Project: 095

Project Number: 095

Project Manager: Ross McMakin

Reported: 08/12/17 06:23

#### QUALITY CONTROL (QC) SAMPLE RESULTS

			Tota	Metals by	EPA 60	20 (ICPMS	5)					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7080565 - EPA 3051	1A	_					Soi	<u> </u>				
LCS (7080565-BS1)				Pre	pared: 08/	10/17 09:23	Analyzed:	08/11/17 18	3:45			
EPA 6020A												
Vanadium	49.9	0.500	1.00	mg/kg wet	п	50.0		100	п			
Zinc	53.1	2.00	4.00	**	ıı	u		106	u			
Duplicate (7080565-DUP1)				Pre	pared: 08/	10/17 09:23	Analyzed:	08/11/17 20	0:05			
QC Source Sample: US-1 (A7H02	255-01)											
EPA 6020A												
Antimony	ND	0.795	1.59	mg/kg dry	10		ND				40%	
Arsenic	2.62	0.795	1.59	"	11		2.12			21	40%	Q-0
Barium	85.7	0.795	1.59	n	"		53.0			47	40%	Q-0
Beryllium	0.249	0.159	0.318	II.	п		0.240			3	40%	Q-05,
Cadmium	ND	0.159	0.318	п	11		ND				40%	
Chromium	7.46	0.795	1.59	n.	n		5.22			35	40%	Q-0
Cobalt	4.57	0.159	0.318	**	n		5.19			13	40%	Q-0
Copper	15.9	0.795	1.59	n	u		12.2			26	40%	Q-0
Lead	3.60	0.159	0.318	n	п		3.98			10	40%	Q-0
Mercury	ND	0.0636	0.127	li .	п		ND				40%	
Molybdenum	ND	0.795	1.59	n	п		ND				40%	
Nickel	5.58	0.795	1.59	II	u		3.48			46	40%	Q-0
Selenium	ND	0.795	1.59	п	**		ND				40%	
Silver	ND	0.159	0.318	11	n		ND				40%	
Thallium	ND	0.159	0.318	**	n		ND				40%	
Vanadium	22.3	0.795	1.59	H	п		17.1	***		26	40%	Q-0
Zinc	22.0	3.18	6.36	"	п	***	14.5			41	40%	Q-0
Matrix Spike (7080565-MS1)				Pre	pared: 08/	10/17 09:23	Analyzed:	08/11/17 2(	0:10			
QC Source Sample: US-1 (A7H02	255-01)											
EPA 6020A												
Antimony	41.8	0.853	1.71	mg/kg dry	10	42.6	ND	98	75-125%			
Arsenic	94.2	0.853	1.71	0	п	85.4	2.12	108	п			
Barium	164	0.853	1.71	rı	и	"	53.0	130	п			Q-0
Beryllium	46.7	0.171	0.341	и	n n	42.6	0.240	109	и			
Cadmium	90.5	0.171	0.341	n .	п	85.4	ND	106	И			
Chromium	95.2	0.853	1.71	п	ш	0	5.22	105	**			
Cobalt	96.7	0.171	0 341	n n	н		5.19	107	0			
Copper	115	0.853	1.71	u	μ	n	12.2	120	n .			Q-0

DRAFT REPORT

Polk County Public Works Y6318-012-17

## Apex Labs

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NWFF

Project: 095

PO Box 188

Project Number: 095

Philomath, OR 97370

Project Manager: Ross McMakin

Reported:

08/12/17 06:23

#### QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)												
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7080565 - EPA 3051A							Soi	<u> </u>				
Matrix Spike (7080565-MS1)				Pre	pared: 08/	10/17 09:23	Analyzed:	08/11/17 20	:10			
QC Source Sample: US-1 (A7H0255-	01)											
EPA 6020A												
Lead	97.4	0.171	0.341	mg/kg dry	U	11	3.98	109	п			
Mercury	1.84	0.0683	. 0.137	11	II.	1.71	ND	108	11			
Molybdenum	43.4	0.853	1.71	п	II.	42.6	ND	102	n		•	
Nickel	95.5	0.853	1.71	II .	п	85.4	3.48	108	n			
Selenium	49.8	0.853	1.71	н	11	42.6	ND	117	U			
Silver	43.6	0.171	0.341	"	0	п	ND	102	п			
Thallium	46.5	0.171	0.341	"	11	н	ND	109	II			
Vanadium	118	0.853	1.71	n	п	85.4	17.1	119	n .			Q
Zinc	119	3.41	6.83	11	п	11	14.5	122	11			Ç

Polk County Public Works Y6318-012-17

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Philomath, OR 97370

Project Manager: Ross McMakin

08/12/17 06:23

#### QUALITY CONTROL (QC) SAMPLE RESULTS

				Percent	Dry We	ight						
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7080 <u>529 - To</u>	tal Solids (Dry We	eight)					Soil	l				

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Project: 095

Project Number: 095

Project Manager: Ross McMakin

Reported:

08/12/17 06:23

#### SAMPLE PREPARATION INFORMATION

			Organochlorine Pesti	cides by EPA 8081B			
Prep: EPA 3546/36	40A (GPC)	······································			Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 7080569							
A7H0255-01RE1	Soil	EPA 8081B	08/08/17 11:50	08/09/17 13:35	10.09g/40mL	10g/5mL	7.93
		Organophos	sphorous Pesticides	(OPPs) by EPA 8270D	(GC/MS)		
Prep: EPA 3546					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 7080573							
A7H0255-01	Soil	8270D OPP	08/08/17 11:50	08/10/17 11:48	1.14g/5mL	10g/5mL	8.77
A7H0255-01RE1	Soil	8270D OPP	08/08/17 11:50	08/10/17 11:48	1.14g/5mL	10g/5mL	8.77
			Total Metals by EF	PA 6020 (ICPMS)			
Prep: EPA 3051A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 7080565							········
A7H0255-01	Soil	EPA 6020A	08/08/17 11:50	08/10/17 09:23	0.496g/50mL	0.5g/50mL	1.01
			Percent Dr	y Weight			
Prep: Total Solids	(Dry Weight	<u> </u>			Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 7 <u>080529</u>							
A7H0255-01	Soil	EPA 8000C	08/08/17 11:50	08/09/17 13:45	IN/A/IN/A	1N/A/1N/A	NA

Polk County Public Works Y6318-012-17



12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

 NWFF
 Project:
 095

 PO Box 188
 Project Number:
 095
 Reported:

 Philomath, OR 97370
 Project Manager:
 Ross McMakin
 08/12/17 06:23

#### Notes and Definitions

#### Qualifiers:

B-02	Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
C-05	Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
Q-04	Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
Q-05	Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-41	Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
R-04	Reporting levels elevated due to dilution necessary for analysis.
S-01	Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.

#### Notes and Conventions:

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry'designation are not dry weight corrected.
RPD	Relative Percent Difference
MDL	If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
WMSC	Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
Batch QC	Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
Blank Policy	Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.

For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor,

and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.

DRAFT REPORT

Polk County Public Works Y6318-012-17

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax



NWFF PO Box 188

Project: 095

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Reported:

Philomath, OR 97370

Project Manager: Ross McMakin

08/12/17 06:23

Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.

- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- \*\*\* Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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503-718-0333 Fax

# Apex Labs

NWFF
PO Box 188
Philomath, OR 97370

Project Manager: Ross McMakin

Reported: 08/12/17 06:23

Project Number: 095

Project: 095

Lab# <u>A 1 H 0 255</u> COC | of |

APEX LABS

RELINQUISHED BY

Company: NUFF

Signature:

12232 S.W. Garden Place, Tigard, OR 97223 Ph; 503-718-2323 Fax: 503-718-0333

Company: NWFF

**CHAIN OF CUSTODY** 

Project Mys Ros McMakin 095 Company: NWFF Project Name Phone: 341-924-4884 Fax Email: NWFF Graye PD 30x 188 Philippith CR 97370 ANALYSIS REQUEST Sampled by: Al. Sh. Av. Ba. Be. Ca. Ca. Cr. Cu. Ca. Fe. Pa. He. Mg. Mn. Ma. Ni, K. Se, Ag. Na. 11, V. Zu. 101Al. DISS TCLP \* OF CONTAINERS 8260 VOCs Fell List 8260 RBDM VOCA 8260 BTEX VOCS (OR RCRA Metaly (8) Sue Location: 8270 SIM PAHS FCUP Metals (8) NWTPH-HC1D NWTPH-DA SEGRETATORS Other: 1200-COLS 30.vs 0278 RIBRE PUR LAB (D # 6f80 T/TO 1200-2 DATE HME SAMPLE ID 3.8.17 (180 50:1 U5-1 Normal Turn Around Time (TAT) = 10 Business Days NO SPECIAL INSTRUCTIONS 1 Day 2 Day 3 Day TAT Requested (circle) 4 DAY 5 DAY SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY

Company NWFF

The results provided in this report are PRELIMINARY and are subject to change hased on subsequent analysis. QC validation or final data review. Please use these results with the understanding that they may have not been finalized by the laboratory

DRAFT REPORT

Polk County Public Works Y6318-012-17

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone

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NWFF	Project: 095	
PO Box 188	Project Number: 095	Reported:
Philomath, OR 97370	Project Manager: Ross McMakin	08/12/17 06:23

APEX LABS COOLER RECEIPT FORM
Client: NWFF Element WO#: A7 HO 255
Project/Project #: 095
Delivery info:
Date/Time Received: 8917 @ 842 By: S
Delivered by: Apex Client ESS Fedts UPS Swift Senvoy SDS Other
Cooler Inspection Inspected by: (X) : 8917 @ 847
Chain of Custody Included? Yes No Custody Seals? Yes No V
Signed/Dated by Client? Yes V No
Signed/Dated by Apex? Yes V No
Cooler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6 Cooler #7  Temperature (deg. C)  Received on Ice? (VN)  Temp. Blanks? (Y/O) Ice Type: Gel Real/Other)  Condition:  Cooler out of temp? (YN) Possible reason why:  If some coolers are in temp and some out were green dot applied to out of temperature samples? Yes/No/NA  Samples Inspection: Inspected by:  All Samples Intact? Yes No Comments:  Bottle Labels/COCs agree? Yes No Comments:
Containers/Volumes Received Appropriate for Analysis? YesX No Comments:
Do VOA Vials have Visible Headspace? Yes No NAX
Water Samples: pH Checked and Appropriate (except VOAs): YesNoNA
Additional Information:
AND THE PROPERTY OF THE PROPER
Labeled by: Wigness: Cooler Inspected by: See Project Contact Form: Y  UNITALITY  WHOULD
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DRAFT REPORT





Polk County Public Works Y6318-012-17



(/niosh/index.htm)

#### **SULFOTEP**

ICSC: 0985

Thiodiphosphoric acid tetraethyl ester Ethyl thiopyrophosphate Tetraethyl dithiopyrophosphate (TEDP)  $C_8H_{20}O_5P_2S_2$  /  $(C_2H_5O)_2P(S)OP(S)(OC_2H_5)_2$  Molecular mass: 322.30

ICSC # 0985

CAS # 3689-24-5 RTECS # <u>XN4375000</u> UN # 1704 EC # 015-027-00-3 October 18, 1999 Validated

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Water spray, foam, powder, carbon dioxide.
EXPLOSION	Container may explode violently in heat of fire.		In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE		STRICT HYGIENE! AVOID EXPOSURE OF ADOLESCENTS AND CHILDREN!	IN ALL CASES CONSULT A DOCTOR!
•INHALATION	Blue skin. Dizziness. Drowsiness. Headache. Pupillary constriction, muscle cramp, excessive salivation. Sweating. Laboured breathing. Nausea. Convulsions. Unconsciousness. Weakness. See Ingestion.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.

Polk County Public Works Y6318-012-17 Rinse and then wash skin MAY BE ABSORBED! Protective gloves. Redness. Sweating and Protective clothing. with water and soap. Refer SKIN for medical attention twitching in the area of absorption. (Further see Inhalation). Redness. Pain. Pupillary Face shield or eye First rinse with plenty of constriction. protection in combination water for several minutes eYES with breathing protection. (remove contact lenses if easily possible), then take to a doctor. Abdominal cramps. Do not eat, drink, or Induce vomiting (ONLY Confusion. Diarrhoea. smoke during work. Wash IN CONSCIOUS INGESTION Vomiting. Loss of appetite. hands before eating. PERSONS!). Refer for (Further see Inhalation). medical attention. PACKAGING & SPILLAGE DISPOSAL **STORAGE** LABELLING Ventilation. Collect leaking Dry. Well closed. Separated Do not transport with food and liquid in sealable containers. from strong oxidants, food and feedstuffs. Absorb remaining liquid in dry feedstuffs. Keep in a well-Marine pollutant. sand or inert absorbent and ventilated room. Do not store in T+ symbol remove to safe place. Personal metal containers. Store in an N symbol protection: complete protective area without drain or sewer R: 27/28-50/53 clothing including selfaccess. Provision to contain S: 1/2-23-28-36/37-45-60-61 contained breathing apparatus. effluent from fire extinguishing. UN Hazard Class: 6.1 Do NOT let this chemical enter UN Packing Group: II the environment. Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European ICSC: 0985 Communities (C) IPCS CEC 1994. No modifications to the

International version have been made except to add the OSHA

PELs, NIOSH RELs and NIOSH IDLH values.

**SULFOTEP** 

ICSC: 0985

	<b>_</b>	
	PHYSICAL STATE; APPEARANCE: PALE YELLOW LIQUID, WITH CHARACTERISTIC ODOUR.	ROUTES OF EXPOSURE:  The substance can be absorbed into the body by inhalation, through the skin and by ingestion.
M	PHYSICAL DANGERS:	
Р	CHEMICAL DANGERS: The substance decomposes on heating producing highly toxic	INHALATION RISK: A harmful contamination of the air will not or will only very slowly be reached on evaporation of this substance at 20°C.
0	fumes of phosphorous oxides and sulfur oxides . Reacts with strong	EFFECTS OF SHORT-TERM
R	oxidants. Attacks iron, some forms of plastic, rubber and coatings.  OCCUPATIONAL EXPOSURE LIMITS:	EXPOSURE: The substance is irritating to the eyes and the skin . The substance may cause effects on the nervous system , resulting in convulsions,
Т	OSHA PEL: TWA 0.2 mg/m <sup>3</sup> skin NIOSH REL: TWA 0.2 mg/m <sup>3</sup> skin NIOSH IDLH: 10 mg/m <sup>3</sup> See:	respiratory failure. Cholinesterase inhibitor. Exposure far above the OEL may result in death. The
А	89245 TLV: (inhalable fraction & vapour) 0.1 mg/m³ as TWA; (skin); A4 (not	effects may be delayed. Medical observation is indicated.
N	classifiable as a human carcinogen); BEI issued; (ACGIH 2008).	EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: Cholinesterase inhibitor;
Τ.	EU OEL: 0.1 mg/m <sup>3</sup> ; (skin); (EU 2000.	cumulative effect is possible: see acute hazards/symptoms.
D		
А		
Т	·	
А		
PHYSICAL PROPERTIES	Boiling point at 0.2666 kPa: 136- 139°C Relative density (water = 1): 1.2 Solubility in water: none	Vapour pressure, Pa at 20°C: 0.0226 Octanol/water partition coefficient as log Pow: 3.99

# DATA

The substance is very toxic to aquatic organisms. This ENVIRONMENTAL substance does enter the environment under normal use. Great care, however, should be given to avoid any additional release, e.g. through inappropriate disposal.



#### NOTES

Polk County Public Works Y6318-012-17

Depending on the degree of exposure, periodic medical examination is suggested. Specific treatment is necessary in case of poisoning with this substance; the appropriate means with instructions must be available. Technical grade is a dark-coloured liquid, boiling point 131-132°C at 0.267 kPa. Do NOT take working clothes home. ASP 47, Bay-E-393, Bladafum, Dithion, Dithiotep, Dithiofos are trade names. Card has been partly updated in October 2004 and 2005. See sections Occupational Exposure Limits, EU classification, Emergency Response.

Transport Emergency Card: TEC (R)-61GT2-II

Card has been partially updated in November 2008: see Occupational Exposure Limits,

#### ADDITIONAL INFORMATION

ICSC: 0985 SULFOTEP

(C) IPCS, CEC, 1994

IMPORTANT LEGAL NOTICE:

Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

Page last reviewed: July 22, 2015 Page last updated: July 1, 2014

Content source: National Institute for Occupational Safety and Health (https://www.cdc.gov/NIOSH/)

#### **COOKE Garnet R \* DCBS**

From:

Theodore R Bunch Jr <tbunch@oda.state.or.us>

Sent:

Wednesday, August 23, 2017 1:08 PM

To:

COOKE Garnet R \* DCBS

Subject:

Fwd: OERS# 2017-3436 / Polk Co

Polk County Public Works Y6318-012-17



#### Begin forwarded message:

From: Theodore R Bunch Jr < tbunch@oda.state.or.us>

**Subject: Fwd: OERS# 2017-3436 / Polk Co Date:** August 22, 2017 at 11:40:14 AM PDT

To: Michael Odenthal <modenthal@oda.state.or.us>

#### Begin forwarded message:

From: FELDON Leah < leah.feldon@state.or.us > Subject: RE: OERS# 2017-3436 / Polk Co Date: August 17, 2017 at 4:16:27 PM PDT

To: 'BROWN Geoff' <geoff.brown@state.or.us>, 'Alexis M Taylor' <a taylor@oda.state.or.us>, 'GILLES Bruce A' <b system="block">bruce.a.gilles@state.or.us>, HANSON Don <don.hanson@state.or.us>, 'FELDON Leah' <leah.feldon@state.or.us>, 'Linda Hayes Gormsn' linda.hayes-gorman@state.or.us>, 'Theodore R Bunch Jr' <tounch@oda.state.or.us>, HANSON Lisa R <Lisa.R.Hanson@state.or.us>

Cc: MASTROS David <david.j.mastros@state.or.us>, 'VAN-PATTEN Kimberlee' <kimberlee.van-patten@state.or.us>, 'SAWKA Nancy' <nancy.sawka@state.or.us>, "olson.neal@polk1.org"

<olson.neal@polk1.org>, "'pestx@oda.state.or.us" <pestx@oda.state.or.us>, BUNCH Theodore R

<Theodore.R.Bunch@state.or.us>, "Whitaker, Todd" <whitaker.todd@co.polk.or.us>

Thanks, Geoff. Adding Lisa Hanson, ODA.

Leah K. Feldon Deputy Director Oregon Department of Environmental Quality

Executive Assistant: Stacey O'Neil o'neil.stacey@deq.state.or.us

**From:** BROWN Geoff [mailto:geoff.brown@state.or.us]

Sent: Thursday, August 17, 2017 2:28 PM

To: 'Alexis M Taylor'; 'GILLES Bruce A'; HANSON Don; BROWN Geoff; 'FELDON Leah'; 'Linda Hayes Gormsn'; 'Theodore R

Bunch Jr'

Cc: MASTROS David; 'BROWN Geoff'; 'VAN-PATTEN Kimberlee'; 'SAWKA Nancy'; 'olson.neal@polk1.org';

'pestx@oda.state.or.us'; BUNCH Theodore R; 'Whitaker, Todd'

**Subject:** RE: OERS# 2017-3436 / Polk Co

Yesterday our contractor scraped the surface soils that were affected by this pesticide release, which secured the site so people can't casually come into contact with the pesticides, however additional work needs to be done to secure the site for the long term.

The affected area is immediately downstream from a road crossing culvert. The release was initially discovered when maintenance workers began jet-rodding the culvert to clean it out. When they started up the jet rod, pesticide dust/powder emerged from the end of the culvert. So in addition to the contamination we cleaned up from the ditch line soil, there is also likely pesticide inside the culvert. In order to make sure that we don't have a problem when it rains and the roadside ditch starts flowing, we need to clean out the culvert. So DEQ's contractor NRC will be cleaning out the culvert next week by jetrodding it and recovering the jet rod residue/liquids. After the culvert is cleaned out, they will sample soil downstream and upstream of the culvert to make sure the cleanup was complete. Please let me know if you have any questions.

Geoff Brown State On-Scene Coordinator Oregon DEQ 541-686-7819

From: BROWN Geoff

Sent: Wednesday, August 16, 2017 4:31 PM

To: Linda Hayes Gormsn; GILLES Bruce A; FELDON Leah; Theodore R Bunch Jr; Alexis M Taylor; HANSON Don

Cc: 'pestx@oda.state.or.us'; BUNCH Theodore R; 'BROWN Geoff'; 'VAN-PATTEN Kimberlee'; SAWKA Nancy; MASTROS

David

**Subject:** RE: OERS# 2017-3436 / Polk Co

Our contractor, NRC, responded and assessed the scene earlier today. Based on their reported observations, the spill/dump area was pretty small. They cleaned up the spilled material and surrounding soil, bagged it up and transported it back to their facility for characterization and disposal. We will be conferring internally tomorrow about the need for any additional work or sampling.

Geoff Brown State On-Scene Coordinator Oregon DEQ 541-686-7819

From: GILLES Bruce A

**Sent:** Wednesday, August 16, 2017 4:24 PM **To:** 'Lisa Hanson'; Linda Hayes Gormsn

Cc: GILLES Bruce A; FELDON Leah; Theodore R Bunch Jr; Alexis M Taylor; HANSON Don; BROWN Geoff

Subject: RE: OERS 2017-2436 Polk Co.

Lisa,

DEQ dispatched our contractor to clean up the spill this morning. Geoff Brown from our Eugene office has been in contact with the contractor and will send a follow up to this email with status of our response work.

Thanks Bruce Bruce Gilles, Manager

Department of Environmental Quality

Cleanup and Emergency Response Program Operations Division, Headquarters 700 NE Multnomah Street, Suite 600

Portland, OR 97232-4100

Phone: (503) 229-6391 Cell: (971) 246-2300 Polk County Public Works Y6318-012-17



From: Lisa Hanson [mailto:lhanson@oda.state.or.us]

Sent: Wednesday, August 16, 2017 4:08 PM

To: Linda Hayes Gormsn < Linda. Hayes-GORMAN@state.or.us >

Cc: GILLES Bruce A <bruce.a.gilles@state.or.us>; FELDON Leah <leah.feldon@state.or.us>; Theodore R Bunch Jr

<tbunch@oda.state.or.us>; Alexis M Taylor <ataylor@oda.state.or.us>

Subject: Re: OERS 2017-2436 Polk Co.

Thank you for the information. Please let us know what we can do to stay coordinated.

On Aug 16, 2017, at 4:02 PM, HAYES-GORMAN Linda < Linda. Hayes-GORMAN@state.or.us> wrote:

DEQ dispatched NRC this morning to clean up the pesticide spill. Bruce will check on status and get back to us.

**From:** HAYES-GORMAN Linda [mailto:linda.hayes-gorman@state.or.us]

Sent: Wednesday, August 16, 2017 3:56 PM

To: 'Lisa Hanson' < <a href="mailto:linda.hayes-gorman@state.or.us">linda.hayes-gorman@state.or.us</a>; FELDON Leah

<leah.feldon@state.or.us>

Subject: RE: OERS 2017-2436 Polk Co.

Thanks for sharing.

I just spoke with Keith Andersen (WR admin) he is tracking down his cleanup lead Don Hanson to see what he knows.

- 1) is the area cordoned off so it is safe,
- 2) has there been any cleanup/is it planned, and
- 3) we need a shared agency understanding of what happened and what will happen.

I will try our HQ folks again whose names I saw on the email exchange.

From: Lisa Hanson [mailto:lhanson@oda.state.or.us]

Sent: Wednesday, August 16, 2017 3:46 PM

To: Linda Hayes Gormsn < linda.hayes-gorman@state.or.us >; FELDON Leah < leah.feldon@state.or.us >

Subject: Fwd: OERS 2017-2436 Polk Co.

first one

Begin forwarded message:

From: Dale Mitchell < dmitchell @oda.state.or.us >

**Subject: Fwd: OERS 2017-2436 Polk Co. Date:** August 15, 2017 at 4:58:07 PM PDT

**To:** Theodore R Bunch Jr <tbunch@oda.state.or.us>

Cc: Lisa R Hanson < <a href="mailto:lhanson@oda.state.or.us">lhanson@oda.state.or.us</a>>, Lauren Henderson < <a href="mailto:lhenderson@oda.state.or.us">lhenderson@oda.state.or.us</a>>, Brian

BOLING <Brian.BOLING@state.or.us>,kimberlee.van-patten@state.or.us

Ted.

You may have already received this ORES report. Pesticides Program, Mike and I are receiving call about how to coordinate. Kimberly Van Patton from DEQ also contacted me. OROSHA has referred to PARC. A PARC coordination call need to be scheduled First thing in morning. Incident occurred August 7, 2017, and just reported to ORES.

With three individuals already affected a HasMat team may be needed to evaluate site. ODA staff are not trained on Spill response & cleanup.

If we need to discuss tonight let me know.

Dale M.

Begin forwarded message:

From: "Staff, Oers" < oers.staff@state.or.us > Subject: FW: OERS 2017-2436 Polk Co. Date: August 15, 2017 at 4:37:00 PM PDT

**To:** MITCHELL Dale L < Dale.L.Mitchell@state.or.us>

From: Staff, Oers

Sent: Tuesday, August 15, 2017 4:03 PM

To: OHD DUTY Officer; duty-officers@oda.state.or.us

Subject: OERS 2017-2436 Polk Co.

Polk Co. PW reported the discovery of a pesticide spill on 08/07/17.

[cid:image003.jpg@01D315E4.B7D5B840]

Tracie Long Duty Officer

Oregon Office of Emergency Management

Email: OERS.Staff@state.or.us<mailto:OERS.Staff@state.or.us>

Phone: (503) 378-6377



Polk County Public Works Y6318-012-17

#### \*\*\*\*\*CONFIDENTIALITY NOTICE\*\*\*\*

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Lisa Hanson Ihanson@oda.state.or.us

Lisa Hanson Ihanson@oda.state.or.us

#### **COOKE Garnet R \* DCBS**

From:

Theodore R Bunch Jr <tbunch@oda.state.or.us>

Sent:

Wednesday, August 23, 2017 1:31 PM

To:

COOKE Garnet R \* DCBS

Subject:

Fwd: OERS# 2017-3436 / Polk Co

Attachments:

Incident Order 17-06 OERS#2436\_FullyExecuted.pdf

#### Begin forwarded message:

**From:** VAN-PATTEN Kimberlee <kimberlee.van-patten@state.or.us>

Subject: RE: OERS# 2017-3436 / Polk Co Date: August 16, 2017 at 3:57:40 PM PDT To: SAWKA Nancy < nancy.sawka@state.or.us>

**Cc:** "'pestx@oda.state.or.us'" <pestx@oda.state.or.us>, BUNCH Theodore R <Theodore.R.Bunch@state.or.us>, 'BROWN Geoff' <geoff.brown@state.or.us>

Dave Mastros sent NRC Environmental Services out to cleanup the spill today. I don't know anything more than that. Geoff Brown said he was going to touch base with NRCES earlier today. He might have more information. No need to log in complaints as it was handled in spills.

#### Kimberlee

From: SAWKA Nancy

Sent: Wednesday, August 16, 2017 3:24 PM

To: VAN-PATTEN Kimberlee

**Subject:** FW: OERS# 2017-3436 / Polk Co

Hi Kimberlee – Ted Bunch forwarded this to me and was asking if DEQ was going to respond. Should I be logging this as a complaint or will OERs be responding and then contacting spills? Not sure of the process for this one especially since it's a pesticide.

Thanks - Nancy

From: Theodore R Bunch Jr [mailto:tbunch@oda.state.or.us]

Sent: Wednesday, August 16, 2017 3:05 PM
To: SAWKA Nancy <nancy.sawka@state.or.us>
Subject: Fwd: OERS# 2017-3436 / Polk Co

Begin forwarded message:

From: VAN-PATTEN Kimberlee < kimberlee.van-patten@state.or.us>

**Subject: FW: OERS# 2017-3436 / Polk Co Date:** August 15, 2017 at 4:28:21 PM PDT



#### To: BUNCH Theodore R < Theodore.R.Bunch@state.or.us>

I got an "undeliverable" on my first attempt. 🕾

Polk County Public Works Y6318-012-17

From: VAN-PATTEN Kimberlee

**Sent:** Tuesday, August 15, 2017 4:20 PM

To: 'pestx@oda.state.or.us'; BUNCH Theodore R

Cc: MASTROS David

**Subject:** FW: OERS# 2017-3436 / Polk Co

Thanks for your assistance. Please let us know how we can help.

Kimberlee Van Patten
Duty Officer ~ Emergency Response Program
Oregon Dept. of Environmental Quality
503-229-5256 office
971-563-8034 cell
700 NE Multnomah St., Suite #1400
Portland, OR 97232

**From:** STAFF Oers

Sent: Tuesday, August 15, 2017 4:02 PM

**To:** DOSPILLS; DREHER DAVID M; DUTY-OFFICER PHP; Folsom, Jamaal; Giffin, Sandy; GRIFFIN Dennis \* OPRD; HUBBELL Raymond K; Kuenzi, Chris; martenson, eric; Ron Modjeski (modjeski.ronald@epa.qov);

Szumski, Mike

**Subject:** OERS# 2017-3436 / Polk Co

Polk Co. PW reported the discovery of a pesticide spill on 08/07/17.



Keelyn Fawcett
CJIS Specialist | Information Technology
Oregon State Police
Email: Helpdesk.LEDS@state.or.us

Phone: (503) 378-5565

To provide premier public safety services.

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#### **COOKE Garnet R \* DCBS**

From:

Theodore R Bunch Jr <tbunch@oda.state.or.us>

Sent:

Wednesday, August 23, 2017 1:42 PM

To:

COOKE Garnet R \* DCBS

Subject:

Fwd: OERS# 2017-3436 / Polk Co

Polk County Public Works Y6318-012-17

Begin forwarded message:

From: BROWN Geoff < geoff.brown@state.or.us >

Subject: RE: OERS# 2017-3436 / Polk Co Date: August 17, 2017 at 2:28:14 PM PDT

**To:** 'Alexis M Taylor' <a href="mailto:datable.or.us">ataylor@oda.state.or.us</a>, 'GILLES Bruce A' <a href="mailto:bruce.a.gilles@state.or.us">bruce.a.gilles@state.or.us</a>, HANSON Don <a href="mailto:don.hanson@state.or.us">don.hanson@state.or.us</a>, BROWN Geoff <a href="mailto:geoff.brown@state.or.us">geoff.brown@state.or.us</a>, 'FELDON Leah' <a href="mailto:leah.feldon@state.or.us">leah.feldon@state.or.us</a>, 'Linda Hayes Gormsn' <a href="mailto:linda.hayes-gorman@state.or.us">linda.hayes-gorman@state.or.us</a>,

'Theodore R Bunch Jr' < tbunch@oda.state.or.us >

Cc: MASTROS David <a href="mailto:david.j.mastros@state.or.us">david.j.mastros@state.or.us</a>, 'BROWN Geoff' <a href="mailto:geoff.brown@state.or.us">geoff.brown@state.or.us</a>,

'VAN-PATTEN Kimberlee' < <a href="mailto:kimberlee.van-patten@state.or.us">kimberlee</a> <a href="mailto:kimberlee.van-patten.us">kimberlee</a> <a href="mailto:kimberlee.van-patt

"pestx@oda.state.or.us" <pestx@oda.state.or.us>, BUNCH Theodore R

<theodore.r.bunch@state.or.us>, ""Whitaker, Todd"" <whitaker.todd@co.polk.or.us>

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The affected area is immediately downstream from a road crossing culvert. The release was initially discovered when maintenance workers began jet-rodding the culvert to clean it out. When they started up the jet rod, pesticide dust/powder emerged from the end of the culvert. So in addition to the contamination we cleaned up from the ditchline soil, there is also likely pesticide inside the culvert. In order to make sure that we don't have a problem when it rains and the roadside ditch starts flowing, we need to clean out the culvert. So DEQ's contractor NRC will be cleaning out the culvert next week by jetrodding it and recovering the jet rod residue/liquids. After the culvert is cleaned out, they will sample soil downstream and upstream of the culvert to make sure the cleanup was complete. Please let me know if you have any questions.

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To: Linda Hayes Gormsn; GILLES Bruce A; FELDON Leah; Theodore R Bunch Jr; Alexis M Taylor; HANSON Don

Cc: 'pestx@oda.state.or.us'; BUNCH Theodore R; 'BROWN Geoff'; 'VAN-PATTEN Kimberlee'; SAWKA Nancy: MASTROS

David

**Subject:** RE: OERS# 2017-3436 / Polk Co

Polk County Public Works Y6318-012-17

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Thanks Bruce

Bruce Gilles, Manager

Department of Environmental Quality Cleanup and Emergency Response Program Operations Division, Headquarters 700 NE Multnomah Street, Suite 600 Portland, OR 97232-4100

Phone: (503) 229-6391 Cell: (971) 246-2300

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Sent: Wednesday, August 16, 2017 4:08 PM

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Cc: GILLES Bruce A < bruce.a.gilles@state.or.us>; FELDON Leah < leah.feldon@state.or.us>; Theodore R Bunch Jr

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Sent: Wednesday, August 16, 2017 3:56 PM

Y6318-012-17 To: 'Lisa Hanson' < lhanson@oda.state.or.us>; Linda Hayes Gormsn < linda.hayes-gorman@state.or.us>; FELDON Leah

Polk County Public Works

<leah.feldon@state.or.us>

Subject: RE: OERS 2017-2436 Polk Co.

Thanks for sharing.

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- 1) is the area cordoned off so it is safe,
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Subject: Fwd: OERS 2017-2436 Polk Co.

first one

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Subject: Fwd: OERS 2017-2436 Polk Co. Date: August 15, 2017 at 4:58:07 PM PDT

To: Theodore R Bunch Jr < tbunch@oda.state.or.us>

Cc: Lisa R Hanson < lhanson@oda.state.or.us>, Lauren Henderson < lhenderson@oda.state.or.us>, Brian

BOLING <Brian.BOLING@state.or.us>,kimberlee.van-patten@state.or.us

Ted,

You may have already received this ORES report. Pesticides Program, Mike and I are receiving call about how to coordinate. Kimberly Van Patton from DEQ also contacted me. OROSHA has referred to PARC. A PARC coordination call need to be scheduled First thing in morning. Incident occurred August 7, 2017, and just reported to ORES.

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If we need to discuss tonight let me know.

Dale M.

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**From:** "Staff, Oers" < oers.staff@state.or.us>

**Subject: FW: OERS 2017-2436 Polk Co. Date:** August 15, 2017 at 4:37:00 PM PDT

**To:** MITCHELL Dale L <Dale.L.Mitchell@state.or.us>

Polk County Public Works Y6318-012-17



From: Staff, Oers

Sent: Tuesday, August 15, 2017 4:03 PM

To: OHD DUTY Officer; duty-officers@oda.state.or.us

Subject: OERS 2017-2436 Polk Co.

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#### [cid:image003.jpg@01D315E4.B7D5B840]

Tracie Long
Duty Officer

Oregon Office of Emergency Management

Email: OERS.Staff@state.or.us<mailto:OERS.Staff@state.or.us>

Phone: (503) 378-6377

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Lisa Hanson Ihanson@oda.state.or.us

Lisa Hanson Ihanson@oda.state.or.us

#### **COOKE Garnet R \* DCBS**

From:

BROWN Geoff <geoff.brown@state.or.us>

Sent:

Wednesday, September 06, 2017 3:17 PM

To:

COOKE Garnet R \* DCBS

Subject:

RE: 117041----partial draft report--A7H0678

**Attachments:** 

117041 Sample.jpg

Yes. The green sample was sent to another lab. I don't have results for it yet. I'm also not sure if DEQ is going to conduct more work or not, I may have NRC do some shovel work over the top of the culvert and beneath the culvert where the muddy area is and sample the water.

From: COOKE Garnet R \* DCBS [mailto:Garnet.R.Cooke@oregon.gov]

Sent: Wednesday, September 06, 2017 3:12 PM

To: BROWN Geoff

Subject: RE: 117041----partial draft report--A7H0678

Hi Geoff.

Thanks. Do you know which sample was taken where? Were these taken after the jet rodding? And if so, was the water collected sampled? Also, the green stuff sample went to another lab, right?

Thanks for your help on this!

Garnet

From: BROWN Geoff [mailto:geoff.brown@state.or.us]
Sent: Wednesday, September 06, 2017 2:38 PM

To: COOKE Garnet R \* DCBS

Subject: FW: 117041----partial draft report--A7H0678

Good timing. I just received the results from NRC. The results are orders of magnitude lower than the initial samples, with one of three samples containing chlorpyrifos at 101 ppm, somewhat above EPA's risk based screening level for residential receptors (which is 63 ppm), which is based on a 30-year residential exposure. It is also above the leaching to protect groundwater screening level, which would apply if the release was very close to a residential drinking water well.

From: Geigle, Roman [mailto:RGeigle@nrcc.com]
Sent: Wednesday, September 06, 2017 11:56 AM
To: DEQ Geoff Brown (geoff.brown@state.or.us)
Subject: FW: 117041----partial draft report--A7H0678

Photos to follow

Roman Geigle

Portland Emergency Response Manager

NRC

www.nrcc.com | rgeigle@nrcc.com

From: Darrell Auvil [mailto:DAuvil@Apex-Labs.com]
Sent: Wednesday, September 6, 2017 10:51 AM

To: Geigle, Roman < RGeigle@nrcc.com>

**Cc:** Darwin Thomas < <u>DThomas@Apex-Labs.com</u>> **Subject:** 117041----partial draft report--A7H0678

Polk County Public Works Y6318-012-17

Hi Roman, see attached, updated report, with organophosphorus pesticides (OPPs).

Note Chlorpyrifos data on

(QG)

sample SS1 on page 7.

8151 herbicide data is still pending.

Regards, Darrell Auvil Project Manager Dauvil@Apex-Labs.com

O: 503.718.2323 M: 503.459.6522

Hours of Operation: 7:30am – 6:30pm M-F & Saturday 9am-Noon only.



Apex Laboratories, LLC - 12232 SW Garden Place - Tigard, Oregon

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Apex Client Survey

### **COOKE Garnet R \* DCBS**

From:

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Sent:

Wednesday, September 06, 2017 2:38 PM

To:

COOKE Garnet R \* DCBS

Subject:

FW: 117041----partial draft report--A7H0678

**Attachments:** 

A7H0678 partial DRAFT 09 06 17 1045---NRC---117041.pdf

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Sent: Wednesday, September 06, 2017 11:56 AM
To: DEQ Geoff Brown (geoff.brown@state.or.us)
Subject: FW: 117041----partial draft report--A7H0678

Photos to follow

Roman Geigle

Portland Emergency Response Manager

-----

NRC

www.nrcc.com | rgeigle@nrcc.com

From: Darrell Auvil [mailto:DAuvil@Apex-Labs.com]
Sent: Wednesday, September 6, 2017 10:51 AM

To: Geigle, Roman < RGeigle@nrcc.com>

**Cc:** Darwin Thomas < <u>DThomas@Apex-Labs.com</u> > **Subject:** 117041----partial draft report--A7H0678

Hi Roman, see attached, updated report, with organophosphorus pesticides (OPPs). **Note Chlorpyrifos data on sample SS1 on page 7.** 

8151 herbicide data is still pending.

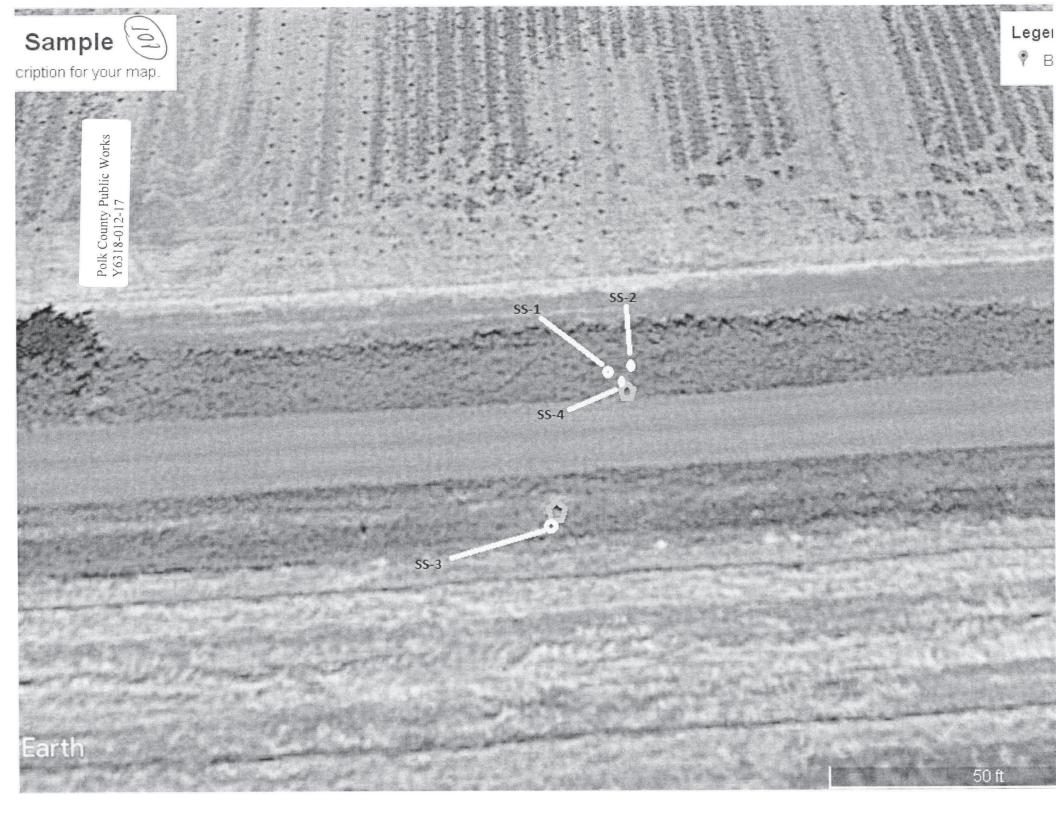
Regards, Darrell Auvil Project Manager <u>Dauvil@Apex-Labs.com</u> 0: 503.718.2323

M: 503.459.6522

Hours of Operation: 7:30am – 6:30pm M-F & Saturday 9am-Noon only.



Apex Laboratories, LLC - 12232 SW Garden Place - Tigard, Oregon



#### **COOKE Garnet R \* DCBS**

From:

BROWN Geoff <geoff.brown@state.or.us>

Sent:

Wednesday, September 20, 2017 9:12 AM

To:

COOKE Garnet R \* DCBS

Subject:

FW: 117041----draft w/ herbicides---A7H0678

**Attachments:** 

A7H0678 DRAFT 09 06 17 1045---NRC---117041---w.Sub.pdf

Here is what we have for that sample. I have asked NRC to look into why they only ran herbicides and if it's too late to get a more complete data set. . . .

From: Geigle, Roman [mailto:RGeigle@nrcc.com]
Sent: Tuesday, September 12, 2017 4:53 PM
To: DEQ Geoff Brown (geoff.brown@state.or.us)

Subject: FW: 117041----draft w/ herbicides---A7H0678

This just in sample results for SS-4 green substance Page 23

Roman Geigle

Portland Emergency Response Manager

-----

NRC

www.nrcc.com | rgeigle@nrcc.com

From: Darrell Auvil [mailto:DAuvil@Apex-Labs.com]

Sent: Tuesday, September 12, 2017 12:13 PM

To: Geigle, Roman < RGeigle@nrcc.com>

**Cc:** Darwin Thomas < <u>DThomas@Apex-Labs.com</u>> **Subject:** 117041----draft w/ herbicides---A7H0678

Hello, herbicide data is now included.

Regards, Darrell Auvil Project Manager <u>Dauvil@Apex-Labs.com</u>

O: 503.718.2323 M: 503.459.6522

Hours of Operation: 7:30am - 6:30pm M-F & Saturday 9am-Noon only.



Apex Laboratories, LLC - 12232 SW Garden Place - Tigard, Oregon

We Welcome Your Feedback
Help us improve your experience by taking our short survey.

**Apex Client Survey** 

#### **COOKE Garnet R \* DCBS**



From:

BROWN Geoff < Geoff.BROWN@state.or.us>

Sent:

Tuesday, October 24, 2017 2:26 PM

To:

COOKE Garnet R \* DCBS

Subject:

RE: 117041----partial draft report--A7H0678

Polk County Public Works

Y6318-012-17

No. That was it.

From: COOKE Garnet R \* DCBS [mailto:Garnet.R.Cooke@oregon.gov]

Sent: Tuesday, October 24, 2017 2:18 PM To: BROWN Geoff <Geoff.BROWN@state.or.us> Subject: RE: 117041----partial draft report--A7H0678

Hi Geoff,

Was any more work or sampling done on this case?

Thanks.

Garnet

**From:** BROWN Geoff [mailto:geoff.brown@state.or.us] Sent: Wednesday, September 06, 2017 3:17 PM

To: COOKE Garnet R \* DCBS

**Subject:** RE: 117041----partial draft report--A7H0678

Yes. The green sample was sent to another lab. I don't have results for it yet. I'm also not sure if DEQ is going to conduct more work or not, I may have NRC do some shovel work over the top of the culvert and beneath the culvert where the muddy area is and sample the water.

**From:** COOKE Garnet R \* DCBS [mailto:Garnet.R.Cooke@oregon.gov]

Sent: Wednesday, September 06, 2017 3:12 PM

To: BROWN Geoff

Subject: RE: 117041----partial draft report--A7H0678

Hi Geoff,

Thanks. Do you know which sample was taken where? Were these taken after the jet rodding? And if so, was the water collected sampled? Also, the green stuff sample went to another lab, right?

Thanks for your help on this!

Garnet

From: BROWN Geoff [mailto:geoff.brown@state.or.us] Sent: Wednesday, September 06, 2017 2:38 PM

To: COOKE Garnet R \* DCBS

**Subject:** FW: 117041----partial draft report--A7H0678

Good timing. I just received the results from NRC. The results are orders of magnitude lower than the initial samples, with one of three samples containing chlorpyrifos at 101 ppm, somewhat above EPA's risk based screening level for residential receptors (which is 63 ppm), which is based on a 30-year residential exposure. It is also above the leaching to protect groundwater screening level, which would apply if the release was very close to a residential drinking water well.

Polk County Public Works

Y6318-012-17

From: Geigle, Roman [mailto:RGeigle@nrcc.com]

**Sent:** Wednesday, September 06, 2017 11:56 AM **To:** DEQ Geoff Brown (geoff.brown@state.or.us)

Subject: FW: 117041----partial draft report--A7H0678

Photos to follow

Roman Geigle

Portland Emergency Response Manager

NRC

www.nrcc.com | rgeigle@nrcc.com

From: Darrell Auvil [mailto:DAuvil@Apex-Labs.com]
Sent: Wednesday, September 6, 2017 10:51 AM

To: Geigle, Roman < RGeigle@nrcc.com >

**Cc:** Darwin Thomas < <u>DThomas@Apex-Labs.com</u>> **Subject:** 117041----partial draft report--A7H0678

Hi Roman, see attached, updated report, with organophosphorus pesticides (OPPs). **Note Chlorpyrifos data on sample SS1 on page 7.** 

8151 herbicide data is still pending.

Regards, Darrell Auvil Project Manager Dauvil@Apex-Labs.com

O: 503.718.2323 M: 503.459.6522

Hours of Operation: 7:30am – 6:30pm M-F & Saturday 9am-Noon only.



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12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

> Polk County Public Works Y6318-012-17

Wednesday, September 6, 2017

Roman Geigle NRC 6211 N Ensign St Portland, OR 97217

RE: 117041 / 117041

Enclosed are the results of analyses for work order <u>A7H0678</u>, which was received by the laboratory on 8/24/2017 at 2:12:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: <u>DAuvil@apex-labs.com</u>, or by phone at 503-718-2323.

DRAFT REPORT

Portland, OR 97217

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

Polk County Public Works

Y6318-012-17

Reported: 09/06/17 10:45

NRC 6211 N Ensign St

Project Number: 117041
Project Manager: Roman Geigle

#### ANALYTICAL REPORT FOR SAMPLES

	SA	MPLE INFORMATI	ON	
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-1	A7H0678-01	Soil	08/23/17 10:05	08/24/17 14:12
SS-2	А7Н0678-02	Soil	08/23/17 10:11	08/24/17 14:12
SS-3	A7H0678-03	Soil	08/23/17 10:16	08/24/17 14:12

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax



NRC 6211 N Ensign St Portland, OR 97217

Project: 117041 Project Number: 117041 Project Manager: Roman Geigle

Reported: 09/06/17 10:45

#### ANALYTICAL SAMPLE RESULTS

	<del> </del>	Orgar	ochlorine Pes	ticides by E	PA 8081B			
,			Reporting					<u> </u>
Analyte	Result	MDL	Limit	Units	Dilution	Date Analyzed	Method	Notes
SS-1 (A7H0678-01RE1)			Matrix: Soil	В	atch: 70810	54		C-0
Aldrin	ND		6.06	ug/kg dry	1	08/30/17 12:57	EPA 8081B	R-02
alpha-BHC	ND		4.18	II.	11	II	п	R-02
beta-BHC	ND		10.5	H	п	п	ti .	R-02
delta-BHC	ND		4.95	H	п	н	ij	R-02
gamma-BHC (Lindane)	ND		7.38	11	n	II	II.	R-02
cis-Chlordane	ND		4.73	п	n	n	"	R-02
trans-Chlordane	ND		6.94	п	n	n	14	R-02
4,4'-DDD	ND		8.70	п	н	n	4(	R-02
4,4'-DDE	28.9		2.20	n .	et e	ti	п	Q-42
4,4'-DDT	ND		14.2	п	п	п	п	R-02
Dieldrin	ND		3.74	11	п	11	п	R-02
Endosulfan I	ND		. 4.18	11	11	11	n	R-02
Endosulfan II	ND		5.17	II.	n	п	n	R-02
Endosulfan sulfate	ND		2.20	П	**	"	ti .	
Endrin	ND		8.37	п	tt	**	н	R-02
Endrin Aldehyde	ND		7.82	11	ш	II.	п	R-02
Endrin ketone	ND		2.20	и	п	II.	U	
Heptachlor	ND		10.3	u .	п	11	п	R-02
Heptachlor epoxide	ND		10.2	п	n	п	11	R-02
Methoxychlor	ND		100	п	"	n	**	R-02
Chlordane (Technical)	ND		66.1	п	и	II.	п	
Toxaphene (Total)	ND		66.1	II.	n	u	ii.	

Surrogate: 2,4,5,6-TCMX (Surr) Decachlorohiphenyl (Surr) Recovery: 57 % Limits: 42-129 %

76 % Limits: 65-151 %

DRAFT REPORT

NRC

6211 N Ensign St

Portland, OR 97217

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-71



Polk County Public Works Y6318-012-17

Project: 117041

Project Number: 117041 Project Manager: Roman Geigle Reported: 09/06/17 10:45

#### ANALYTICAL SAMPLE RESULTS

		Organ	ochlorine Pes	sticides by El	PA 8081B			
			Reporting					
Analyte	Result	MDL	Limit	Units	Dilution	Date Analyzed	Method	Notes
SS-2 (A7H0678-02RE1)			Matrix: Soil	В	atch: 70810	54		C-0
Aldrin	ND		2.47	ug/kg dry	1	08/30/17 13:32	EPA 8081B	
alpha-BHC	ND	~~~	2.47	II.	n	11		
beta-BHC	ND		2.47	п	**	H	и	
delta-BHC	ND		2.47	n .	tt	H.	ш	
gamma-BHC (Lindane)	ND		2.47	"	II.	ti .	н	
cis-Chlordane	ND		2.47	u	п	п	n	
trans-Chlordane	ND		2.47	u	11	11	11	
4,4'-DDD	ND		2.47	п	11	11	#	
4,4'-DDE	ND		2.47	п	**	н	11	
4,4'-DDT	ND		2.47	D	u	u	п	
Dieldrin	ND		2.47	11	11	п	ш	
Endosulfan I	ND		2.47	21	п	ш	п	
Endosulfan II	ND		2.47	и	0	n	II.	
Endosulfan sulfate	ND		2.47	и	н	н	11	
Endrin	ND		2.47	п	**	Ħ	17	
Endrin Aldehyde	ND		2.47	D	u u	H	Ħ	
Endrin ketone	ND		2.47	Ð	n n	tt.	п	
Heptachlor	ND		2.47	**	ш	n .	II.	
Heptachlor epoxide	ND		2.47	11	н	н	11	
Methoxychlor	ND	***	7.40	ш	11	п	n	
Chlordane (Technical)	ND		74.0	n	19	н	H	
Toxaphene (Total)	ND		74.0	n	· · · · · · · · · · · · · · · · · · ·	**	II.	
Surrogate: 2,4,5,6-TCMX (Surr)		R	ecovery: 47 %	Limits: 42-129 %	"	н	п	

87%

Limits: 65-151 %

DRAFT REPORT

The results provided in this report are PRELIMINARY and are subject to change based on subsequent analysis, QC validation or final data review. Please use these results with the understanding that they may have not been finalized by the laboratory

Decachlorohiphenyl (Surr)

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax



Polk County Public Works Y63 | 8-0 | 2-17

Reported: 09/06/17 10:45

NRC Project: 117041
6211 N Ensign St Project Number: 117041
Portland, OR 97217 Project Manager: Roman Geigle

#### ANALYTICAL SAMPLE RESULTS

		Orgar	nochlorine Pest	ticides by El	PA 8081B			
			Reporting					
Analyte	Result	MDL	Limit	Units	Dilution	Date Analyzed	Method	Notes
SS-3 (A7H0678-03RE1)			Matrix: Soil	В	atch: 70810	54		C-0
Aldrin	ND		2.17	ug/kg dry	1	08/30/17 13:49	EPA 8081B	
alpha-BHC	ND		2.17	II	n	н	и	
beta-BHC	ND		2.17	II.	n	u .	п	
delta-BHC	ND		2.17	II	11	и	п	
gamma-BHC (Lindane)	ND		2.17	11	u	n ·	п	
cis-Chlordane	ND	***	2.17	11	ш	н	п	
trans-Chlordane	ND		2.17	**	п	п	II.	
4,4'-DDD	ND		2.39	11	II.	ш	II.	R-02
4,4'-DDE	9.19		2.17	11	ш	п	0	
4,4'-DDT	ND		4.89	и	п	ш	0	R-02
Dieldrin	ND		2.17	и	п	п	II.	
Endosulfan I	ND		2.17	п	11	п	11	
Endosulfan II	ND		2.17	п	11	H	H	
Endosulfan sulfate	ND		2.17	II.	н	Ħ	16	
Endrin	ND		2.17	0	и	tt	п	
Endrin Aldehyde	ND		2.17	H	ш	tt.	н	
Endrin ketone	ND		2.17	11	п	II.	υ	
Heptachlor	ND		2.17	11	п	п	n	
Heptachlor epoxide	ND		2.17	и	11	II.	n	
Methoxychlor	ND		32.6	u u	п	n	н	R-02
Chlordane (Technical)	ND		65.2	п	n	n	Ħ	
Toxaphene (Total)	ND		65.2	п	"	14	п	
Surrogate: 2,4,5,6-TCMX (Surr)		K	Recovery: 44 % L	imits: 42-129 %	- 0	b	11	

73 %

Limits: 65-151 %

DRAFT REPORT

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Decachlorohiphenyl (Surr)

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

NRC

Project: 117041

6211 N Ensign St Portland, OR 97217 Project Number: 117041

Project Manager: Roman Geigle

Reported:

09/06/17 10:45

#### ANALYTICAL SAMPLE RESULTS

			Reporting				<del>.</del>	
Analyte	Result	MDL	Limit	Units	Dilution	Date Analyzed	Method	Notes
SS-1 (A7H0678-01)	<del> </del>		Matrix: Soil		Batch: 709031			
Azinphos methyl (Guthion)	ND		475	ug/kg dry	10	09/05/17 17:24	8270D OPP	
Coumaphos	ND		475	"	n	n,	n	
Demeton O	ND		475	п	n	n	и	
Demeton S	ND		475	11	tt.	и	ц	
Diazinon	ND		475	n	u u	и	п	
Dichlorvos	ND		475	"	п	II	п	
Dimethoate	ND		475	11	п	п	0	
Disulfoton	ND		570	н	II.	н	0	
EPN	ND		475	п	11	0	11	
Ethoprophos (Prophos)	ND		475	II .		H	44	
Fensulfothion	ND		475	п	tt	**	fi .	
Fenthion	ND		475	н	п	ti .	и	
Malathion	ND		475	11	ш	ш	n	
Merphos	ND		475	п	II.	II.	#	
Methyl parathion	ND		475	п	11	D	Ħ	
Mevinphos (Phosdrin)	ND		475	II .	**	H	· ·	
Monocrotophos	ND		475	II .	11	er .	u	
Naled (Dibrom)	ND		475	11	n n	tt.	ii .	
Parathion, ethyl	ND		475	19	н	tt.	н	
Phorate	ND		475	41	II	п	D	
Ronnel (Fenchlorphos)	ND		475	п	ш	u.	n	
Sulfotep	ND		475	u	"	н	H	
Sulprofos (Bolstar)	ND		475	n	11	"	TI .	
ГЕРР	ND		1900	11	п	11	11	
Tetrachlorvinphos (Rabon)	ND		475	n	ш	п	п	
Tokuthion (Prothiofos)	ND		475	u u	п	II	II.	
Trichloronate	ND		475		μ	0	n	
Surrogate: Tributyl phosphate (Surr)		Re	vovery: 123 % L	imits: 50-141 %	п	п	86	
Triphenyl phosphate (Surr	ij		121 % L	imits: 60-130 %	u	**	ч	

DRAFT REPORT

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

NRC 6211 N Ensign St Portland, OR 97217

Project: 117041 Project Number: 117041 Project Manager: Roman Geigle

Reported: 09/06/17 10:45

#### ANALYTICAL SAMPLE RESULTS

			Reporting					
Analyte	Result	MDL	Limit	Units	Dilution	Date Analyzed	Method	Notes
SS-1 (A7H0678-01RE1)			Matrix: Soil		Batch: 70903	11		
Chlorpyrifos	101000		4750	ug/kg dry	100	09/05/17 18:00	8270D OPP	
SS-2 (A7H0678-02RE1)			Matrix: Soil		Batch: 70903	11		
Azinphos methyl (Guthion)	ND		54.9	ug/kg dry	1	09/05/17 19:49	8270D OPP	
Chlorpyrifos	370		54.9	п	**	Ħ	п	
Coumaphos	ND		54.9	11	п	п	II .	
Demeton O	ND		54.9	n	п	H.	ii .	
Demeton S	ND		54.9	11	н	D.	n .	
Diazinon	ND		54.9	п	11	n.	n	
Dichlorvos	ND		54.9	п	n	tt.	Œ	
Dimethoate	ND		54.9	II .	0	u	п	
Disulfoton	ND		65.9	**	W	n	и	
EPN	ND		54.9	#	п	ш	n	
Ethoprophos (Prophos)	ND		54.9	u	n	0	и	
Fensulfothion	ND		54.9	п	n	tt	и	
Fenthion	ND		54.9	11	п	tt	ш	
Malathion	ND		54.9	**	п	ш	п	
Merphos	ND		54.9	и	п	11	II.	
Methyl parathion	ND		54.9	п	n	11	H	
Mevinphos (Phosdrin)	ND		54.9	п	54	**	и	
Monocrotophos	ND		54.9	0	н	or .	п	
Naled (Dibrom)	ND		54.9	**	п	п	п	
Parathion, ethyl	ND		54.9	11	"	n	n	
Phorate	ND		54.9	п	11	и	n	
Ronnel (Fenchlorphos)	ND		54.9	п	и	Ħ	tt	
Sulfotep	ND		54.9	п	U	ti .	п	
Sulprofos (Bolstar)	ND		54.9	n	п	п	п	
TEPP	ND		220	#	11	п	n	
Tetrachlorvinphos (Rabon)	ND		54.9	II.	**	n	n	
Tokuthion (Prothiofos)	ND		54.9	п	н	n	п	
Trichloronate	ND		54.9	n	и	u	n	

Triphenyl phosphate (Surr)

86 % Limits: 60-130 %

DRAFT REPORT

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone

Polk County Public Works Y6318-012-17

Reported:

09/06/17 10:45

NRC 6211 N Ensign St Portland, OR 97217 Project Number: 117041
Project Manager: Roman Geigle

#### ANALYTICAL SAMPLE RESULTS

	Organo	phospho	rous Pesticide	s (OPPs) by	EPA 8270D	(GC/MS)		
			Reporting					
Analyte	Result	MDL	Limit	Units	Dilution	Date Analyzed	Method	Notes
SS-3 (A7H0678-03)			Matrix: Soil		Batch: 70903	11		
Azinphos methyl (Guthion)_	ND		1870	ug/kg dry	40	09/05/17 16:10	8270D OPP	
Chlorpyrifos	17600		1870	п	n .	11	и	
Coumaphos	ND		1870	II .	n.	H.	n	
Demeton O	ND		1870	U	**	**	и	
Demeton S	ND		1870	11	u	11	и	
Diazinon	ND		1870	n	ш	11	tt.	
Dichtorvos	ND		1870	n	п	ц	п	
Dimethoate	ND		1870	н	п	n .	п	
Disulfoton	ND		2240	н	п	П	II	
EPN	ND	**	1870	11	n	1)	n .	
Ethoprophos (Prophos)	ND		1870	II.	"	n	11	
Fensulfothion	ND		1870	II	**	n	H	
Fenthion	ND		1870	II	**	н	ш	
Malathion	ND		1870	n	**	u .	tt	
Merphos	ND		1870	n	tt.	rı .	п	
Methyl parathion	ND		1870	и	U	n .	н	
Mevinphos (Phosdrin)	ND		1870	n	п	п	н	
Monocrotophos	ND		1870	11	п	п	п	
Naled (Dibrom)	ND		1870	п	ш	п	11	
Parathion, ethyl	ND		1870	п	п	п	n	
Phorate	. ND		1870	II .	n	n	n	
Ronnel (Fenchlorphos)	ND		1870	п	n	n	**	
Sulfotep	ND		1870	11	n	н	н	
Sulprofos (Bolstar)	ND		1870	11	п	и	II.	
TEPP	ND		7480	11	п	u	п	
Tetrachlorvinphos (Rabon)	ND		1870	11	п	п	п	
Tokuthion (Prothiofos)	ND		1870	н	п	п	n	
Trichloronate	ND		1870	п	п	0 .	11	
Surrogate: Tributyl phosphate (Surr)		Re	covery: 264 % L	imits: 50-141 %	н	п	11	S-05
Triphenyl phosphate (Sur.	r)		162 % L	imits: 60-130 %	ш	n .	н	S-05

DRAFT REPORT

12232 S.W. Garden Place Tigard, QR 97223 503-718-2323 Phone 502 718 0222 Fee



Polk County Public Works Y6318-012-17

Reported:

09/06/17 10:45

NRC

6211 N Ensign St

Portland, OR 97217

Project: 117041
Project Number: 117041

Project Manager: Roman Geigle

#### ANALYTICAL SAMPLE RESULTS

			Percent	Dry Weight				
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SS-1 (A7H0678-01)			Matrix: Soil	Ba	atch: 70809	81	, .	
% Solids	89.5		1.00	% by Weight	1	08/28/17 07:46	EPA 8000C	
SS-2 (A7H0678-02)			Matrix: Soil	Ва	atch: 70809	81		
% Solids	79.1		1.00	% by Weight	1	08/28/17 07:46	EPA 8000C	
SS-3 (A7H0678-03)			Matrix: Soil	Ва	atch: 708098	81		
% Solids	91.0		1.00	% by Weight	1	08/28/17 07:46	EPA 8000C	

12232 S.W. Garden Place Tigard, OR 97223 503-7



503-7 Polk County Public Works Y6318-012-17

NRC 6211 N Ensign St Portland, OR 97217

Project: 117041 Project Number: 117041 Project Manager: Roman Geigle

Reported: 09/06/17 10:45

#### QUALITY CONTROL (QC) SAMPLE RESULTS

			Organoc	hlorine Pes	suciaes	Dy EPA 81	10 I D					
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7080947 - EPA 3546							Soi	<u> </u>				
Blank (7080947-BLK1)				Prep	oared: 08/	24/17 16:11	Analyzed:	08/25/17 10	0:59			
EPA 8081B	,				-							
Dieldrin	ND		0.909	ug/kg wet	ł							
Surr: 2,4,5,6-TCMX (Surr)		R	ecovery: 93 %	Limits: 42-	129 %	Dill	ution: 1x					
Decachlorobiphenyl (Surr)			92 %	65-	151%		"					
LCS (7080947-BS1)				Prep	pared: 08/	24/17 16:11	Analyzed:	08/25/17 1	1:17			
EPA 8081B												
Dieldrin	38.2		1.00	ug/kg wet	1	50.0		76	56-136%			
Surr: 2,4,5,6-TCMX (Surr)		R	ecovery: 92 %	Limits: 42-	129 %	Dili	ution: Ix					
Decachlorobiphenyl (Surr)			90 %	65-	151%		"					
Batch 7081054 - EPA 3546							Soi	ı				
Blank (7081054-BLK1)			`	Prep	oared: 08/	24/17 16:11	*		2:22			C-
EPA 8081B							-					
Aldrin	ND		1.82	ug/kg wet	1							
alpha-BHC	ND		1.82	п	**							
beta-BHC	ND		1.82	II.	и	***						
delta-BHC	ND		1.82	п	"							
gamma-BHC (Lindane)	ND		1.82	"	U							
cis-Chlordane	NĎ		1.82	н								
trans-Chlordane	ND		1.82	11	"							
4,4'-DDD	ND		1.82	u								
4,4'-DDE	ND		1.82	ш	**	***						
4,4'-DDT	ND		1.82	ш	#1							
Dieldrin	ND		1.82	ш.	н	***					***	
Endosulfan I	ND		1.82	"								
Endosulfan II	ND		1.82	"	п		'					
Endosulfan sulfate	ND		1.82	**	п							
Endrin	ND		1.82	11	"			+	***			
Endrin Aldehyde	ND		1.82	и	"							
Endrin ketone	ND		1.82	п	"							
Heptachlor	ND		1.82	п	"							
Heptachlor epoxide	ND		1.82	п								
Methoxychlor	ND		5.45	п	0							
Chlordane (Technical)	ND		54.5	11								

DRAFT REPORT

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax



NRC 6211 N Ensign St Portland, OR 97217 Project: 117041

Project Number: 117041

Project Manager: Roman Geigle

Reported:

09/06/17 10:45

#### QUALITY CONTROL (QC) SAMPLE RESULTS

	Organochlorine Pesticides by EPA 8081B											
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7081054 - EPA 3546							Soi					
Blank (7081054-BLK1)				Pre	pared: 08/	24/17 16:11	Analyzed:	08/30/17 12	2:22			C-05
EPA 8081B												
Toxaphene (Total)	ND		54.5	ug/kg wet	11							
Surr: 2,4,5,6-TCMX (Surr)		1	Recovery: 60 %	Limits: 42	-129 %	Dil	ution: 1x					
Decachlorohiphenyl (Surr)			84 %	65	-151%		"					
LCS (7081054-BS1)				Pre	pared: 08/	24/17 16:11	Analyzed:	08/30/17 12	2:39			C-05
EPA 8081B												
Aldrin	25.5		2.00	ug/kg wet	1	50.0		51	45-136%			
alpha-BHC	24.1		2.00	11	"	n		48	45-137%			
beta-BHC	35.0		2.00	II.	**	H		70	50-136%			
delta-BHC	38.1		2.00	n	II			76	47-139%			
gamma-BHC (Lindane)	26.3		2.00	n	ш	п		53	49-135%			
cis-Chlordane	34.6		2.00	п	п	н		69	54-133%			
trans-Chlordane	35.0		2.00	n n	п	11		70	53-135%			
4,4'-DDD	45.2		2.00	n	и	0		90	56-139%			
4,4'-DDE	42.8		2.00	n .	п	tt		86	56-134%			
4,4'-DDT	55.5		2.00	n	п	11		111	50-141%			
Dieldrin	36.7		2.00	0	II.	п		73	56-136%			
Endosulfan I	34.2		2.00	If	"	n		68	52-132%			
Endosulfan II	41.4		2.00	п	**	**		83	53-134%			
Endosulfan sulfate	40.7		2.00	n	ш	0		81	55-136%			
Endrin	47.8		2.00	"	п	п		96	56-140%			
Endrin Aldehyde	35.0		2.00	п	н	11		70	35-137%			
Endrin ketone	42.2		2.00	0	n	п		84	55-136%			
Heptachlor	25.0		2.00	ш	"	н		50	47-136%			
Heptachlor epoxide	30.8		2.00	н	19	n		62	52-136%			
Methoxychlor	63.6		6.00	II	u	0		127	52-143%			
Surr: 2,4,5,6-TCMX (Surr)		1	Recovery: 47 %	Limits: 42	-129 %	Dili	ution: [x					
Decachlorohiphenyl (Surr)			89 %	65	-151 %		"					
Duplicate (7081054-DUP1)				Pre	pared: 08/	24/17 16:11	Analyzed: (	08/30/17 13	:14			C-05
QC Source Sample: SS-1 (A7H0678	-01RE1)											
EPA 8081B												
Aldrin	ND		11.9	ug/kg dry	1		ND				30%	R-02
alpha-BHC	ND		5.17	"	11		ND				30%	R-02
beta-BHC	ND		12.0	n	n		ND				30%	R-02

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12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone

Polk County Public Works Y6318-012-17

Reported: 09/06/17 10:45

503-718-0333 Fax

6211 N Ensign St Portland, OR 97217

NRC

Project: 117041 Project Number: 117041 Project Manager: Roman Geigle

### QUALITY CONTROL (QC) SAMPLE RESULTS

			Organoc	hlorine Pes	sticides	by EPA 80	181B				:	
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7081054 - EPA 3546							Soi	I				
Duplicate (7081054-DUP1)				Prep	ared: 08/	24/17 16:11	Analyzed:	08/30/17 13	:14			C-05
QC Source Sample: SS-1 (A7H067	8-01RE1)											
EPA 8081B												
delta-BHC	ND		6.28	ug/kg dry	n		ND				30%	R-0
gamma-BHC (Lindane)	ND		11.2	II.	н		ND				30%	R-0
cis-Chlordane	ND		6.17	n	11		ND				30%	R-0.
trans-Chlordane	ND		10.3	11	11		ND				30%	R-0
4,4'-DDD	ND		17.6	и	п		ND				30%	R-0
4,4'-DDE	42.4		2.20	ш	0		28.9			38	30%	Q-1
4,4'-DDT	ND		22.8	li .	. "		ND				30%	R-02
Dieldrin	ND		5.28	II.	и		ND				30%	R-02
Endosulfan I	ND		6.39	п	ti	***	ND				30%	R-02
Endosulfan II	ND		8.15	n			ND				30%	R-02
Endosulfan sulfate	ND		2.42	tt.	11		ND				30%	R-02
Endrin	ND		12.8	**			ND				30%	R-02
Endrin Aldehyde	ND		14.6	11			ND				30%	R-02
Endrin ketone	ND		2.20	ıı	11		ND				30%	
Heptachlor	ND		19.7	п	11		ND				30%	R-02
Heptachlor epoxide	ND		16.3	ц	u		ND				30%	R-0.
Methoxychlor	ND		135	"	п		ND				30%	R-02
Chlordane (Technical)	ND		66.1	n	п		ND		***		30%	
Toxaphene (Total)	ND		66.1	п	п		ND				30%	
Surr: 2,4,5,6-TCMX (Surr)		Re	ecovery: 79 %	Limits: 42-	129 %	Dilu	ttion: 1x					
Decachlorobiphenyl (Surr)			87 %	65-1	51%		"					
Matrix Spike (7081054-MS1)				Prep	ared: 08/2	24/17 16:11	Analyzed: (	08/30/17 14	:07			C-05
QC Source Sample: SS-3 (A7H067	8-03RE1)						-					
EPA 8081B												
Aldrin	32.3		2.16	ug/kg dry	1	54.1	ND	60	45-136%			
alpha-BHC	27.6		2.16	"	"	**	ND	51	45-137%			
beta-BHC	37.9		2.16	и	"	n	ND		50-136%			
delta-BHC	40.6		2.16	II .	#	n.	ND		47-139%			
gamma-BHC (Lindane)	30.3		2.16	II .	a	#	ND		49-135%			
cis-Chlordane	39.2		2.16	п	п	11	ND		54-133%			
trans-Chlordane	40.9		2.16	11	п	n .	ND		53-135%			
4,4'-DDD	52.0		2.16	41			ND		56-139%			

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Polk County Public Works

09/06/17 10:45

Y6318-012-17

Reported:

NRC 6211 N Ensign St Portland, OR 97217

Project: 117041 Project Number: 117041 Project Manager: Roman Geigle

### QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte R						Organochlorine Pesticides by EPA 8081B												
	esult	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes						
Batch 7081054 - EPA 3546							Soi	1										
Matrix Spike (7081054-MS1)				Pre	pared: 08/	24/17 16:11	Analyzed:	08/30/17 1	4:07			C-05						
QC Source Sample: SS-3 (A7H0678-03R	RE1)																	
EPA 8081B																		
4,4'-DDE	60.1		2.16	ug/kg dry	ц	0	9.19	94	56-134%									
4,4'-DDT	68.8		2.16	II .	ц	N	ND	118	50-141%									
Dieldrin	41.1		2.16	II .	ш		ND	76	56-136%									
Endosulfan I	40.1		2.16	"	II.	п	ND	74	52-132%									
Endosulfan II	45.5		2.16	n	п	11	ND	82	53-134%									
Endosulfan sulfate	48.4		2.16	"	11	ш	ND	89	55-136%									
Endrin	55.7		2.16	п	ii.	п	ND	99	56-140%									
Endrin Aldehyde	41.9		2.16	11	n	n	ND	75	35-137%									
Endrin ketone	47.6		2.16	II .	п	**	ND	88	55-136%									
Heptachlor	32.3		2.16	0	н	#	ND	60	47-136%									
Heptachlor epoxide	38.3		2.16	11	п	11	ND	68	52-136%									
Methoxychlor	102		6.49	"	11	"	ND	130	52-143%	***		Q-4						

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12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fax

NRC 6211 N Ensign St Portland, OR 97217 Project: 117041
Project Number: 117041
Project Manager: Roman Geigle

Polk County Public Works Y6318-012-17 Reported:

09/06/17 10:45

### QUALITY CONTROL (QC) SAMPLE RESULTS

			Reporting			Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Dil.	Amount	Result	%REC	Limits	RPD	Limit	Notes
Batch 7090311 - EPA 3546							Soil					
Blank (7090311-BLK1)				Prej	oared: 09/	05/17 12:13	Analyzed:	09/05/17 14	1:57			
8270D OPP												
Azinphos methyl (Guthion)	ND		41.7	ug/kg wet	1							
Chlorpyrifos	ND		41.7	п	**			•••	***	•		
Coumaphos	ND		41.7	n	n							
Demeton O	ND		41.7	н	u u							
Demeton S	ND		41.7	"	п					*		
Diazinon	ND		41.7		п				***			
Dichlorvos	ND		41.7	II.	11							*
Dimethoate	ND		41.7	п	n							
Disulfoton	ND		50.0	0	18							
EPN	ND		41.7	п								
Ethoprophos (Prophos)	ND		41.7	II	п							
Fensulfothion	ND		41.7	п	п							
Fenthion	ND		41.7	II.	п							
Malathion	ND		41.7	п	n							
Merphos	ND		41.7	n								
Methyl parathion	ND		41.7	и	0							
Mevinphos (Phosdrin)	ND		41.7	н								
Monocrotophos	ND		41.7	и	"							
Naled (Dibrom)	ND		41.7	u	11							
Parathion, ethyl	ND		41.7	ш	11							
Phorate	ND		41.7	ш	11							
Ronnel (Fenchlorphos)	ND		41.7	n	u							
Sulfotep	ND		41.7	U								
Sulprofos (Bolstar)	ND		41.7	"	0							
TEPP	ND		167	**								
Tetrachlorvinphos (Rabon)	ND		41.7	**	п							
Tokuthion (Prothiofos)	ND		41.7	tt.	"							
Trichloronate	ND		41.7	ш	a .							
Surr: Tributyl phosphate (Surr)		Rec	overy: 103 %	Limits: 50-	141%	Dilu	tion: Ix					
Triphenyl phosphate (Surr)			87 %	60-	130 %		"					
LCS (7090311-BS1)				Prep	ared: 09/0	05/17 12:13	Analyzed: (	09/05/17 15	3:33			Q-1
8270D OPP												
Azinphos methyl (Guthion)	387		50.0	ug/kg wet	1	400		97	38-156%			
Chlorpyrifos	324		50.0	**	0	n		81	47-140%			

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12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0332 F

Polk County Public Works

Y6318-012-17

Reported: 09/06/17 10:45

### NRC 6211 N Ensign St

Portland, OR 97217

Project: 117041 Project Number: 117041

Project Manager: Roman Geigle

### QUALITY CONTROL (QC) SAMPLE RESULTS

			D .:		-	0.1		. —	0/055		0.00	
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7090311 - EPA 3546							Soil	l				
LCS (7090311-BS1)				Prep	ared: 09/	05/17 12:13	Analyzed:	09/05/17 1	5:33			Q-18
8270D OPP											***************************************	
Coumaphos	417		50.0	ug/kg wet	**	n		104	37-160%			
Demeton O	97.6		50.0	п	er er	97.6		100	43-117%	~~-		
Demeton S	245		50.0	)II	11	268		91	11			
Diazinon	369		50.0	II .	11	400		92	42-134%			
Dichlorvos	422		50.0	н	п	ш		106	39-142%			
Dimethoate	386		50.0	n	11	п		97	16-139%			
Disulfoton	387		60.0	n .	n	11		97	28-144%			
EPN	423		50.0	П	"	"		106	44-137%			
Ethoprophos (Prophos)	400		50.0	ii.	**	"		100	47-128%			
Fensulfothion	501		50.0	п	n	"		125	27-147%			Q-4
Fenthion	352		50.0	u u	п	11		88	44-134%			
Malathion	319		50.0	11	0	11		80	46-137%			
Merphos	331		50.0	"	0	u u		83	0-153%			
Methyl parathion	340		50.0	"	0	IJ		85	49-138%			
Mevinphos (Phosdrin)	372		50.0	14		п		93	12-176%			
Monocrotophos	432		50.0	п	14	*1		108	65-135%			Q-4
Naled (Dibrom)	398		50.0	ш	**	н		99	0-174%			
Parathion, ethyl	329		50.0	n	u	0		82	50-139%			
Phorate	436		50.0	**		0		109	23-142%			Q-4
Ronnel (Fenchlorphos)	319		50.0	п	11	п		80	45-138%			
Sulfotep	466		50.0	#	11	н			52-126%			Q-4
Sulprofos (Bolstar)	354		50.0	п	11	п			48-139%			
TEPP	425		200	н	н	n		106	30-150%			Q-4
Tetrachlorvinphos (Rabon)	305		50.0	п	"	n n		76	54-129%			-
Tokuthion (Prothiofos)	314		50.0	п	11	и			45-136%			
Trichloronate	294		50.0	II.	u u	11			37-140%			
Surr: Tributyl phosphate (Surr)		Rec	overy: 101%	Limits: 50-	141%	Dilh	tion: Ix					
Triphenyl phosphate (Surr)			80 %	60-1	30 %		"					
Duplicate (7090311-DUP1)				Prep	ared: 09/0	)5/17 12:13	Analyzed: (	)9/05/17 1:	8:37		•	
QC Source Sample: SS-1 (A7H0678	-01)											
8270D OPP												
Azinphos methyl (Guthion)	ND		474	ug/kg dry	10		ND				30%	
Coumaphos.	ND		474	"	**		ND				30%	

DRAFT REPORT

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone



Polk County Public Works Y6318-012-17

NRC 6211 N Ensign St Portland, OR 97217 Project Number: 117041
Project Manager: Roman Geigle

Reported: 09/06/17 10:45

#### QUALITY CONTROL (QC) SAMPLE RESULTS

			Reporting			Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Dil.	Amount	Result	%REC	Limits	RPD	Limit	Notes
Batch 7090311 - EPA 3546							Soi	I			<u> </u>	
Duplicate (7090311-DUP1)	_			Pre	oared: 09/	05/17 12:13	Analyzed:	09/05/17 18	3:37			
QC Source Sample: SS-1 (A7H067	8-01)											
8270D OPP												
Demeton O	ND		474	ug/kg dry	"		ND				30%	
Demeton S	ND		474	п	**		ND				30%	
Diazinon	ND		474	II.	**		ND				30%	
Dichlorvos	ND		474	11	ш		ND				30%	
Dimethoate	ND		474	н	11		ND				30%	
Disulfoton	ND		569	II.	17	***	ND				30%	
EPN	ND		474	μ	**	***	ND				30%	
Ethoprophos (Prophos)	ND		474	п	н		ND				30%	
Fensulfothion	ND		474	11	II.		ND				30%	
Fenthion	ND		3130	n	ш		ND				30%	R-0
Malathion	ND		474	n	n .		ND				30%	
Merphos	ND		474	11	**		ND				30%	
Methyl parathion	ND		474	п	11		ND				30%	
Mevinphos (Phosdrin)	ND		474	n	п		ND				30%	
Monocrotophos	ND		474	tt.	ii .		ND				30%	
Naled (Dibrom)	ND		474	n	п		ND				30%	
Parathion, ethyl	ND		474	II	"		ND				30%	
Phorate	ND		474	II .	"		ND				30%	
Ronnel (Fenchlorphos)	ND		474	0	н		ND				30%	
Sulfotep	ND		474	0	u u		ND				30%	
Sulprofos (Bolstar)	ND	***	474	tt.	II.		ND				30%	
TEPP	ND		1900	п			ND				30%	
Tetrachlorvinphos (Rabon)	ND		474	II .	**		ND				30%	
Tokuthion (Prothiofos)	ND		474	11	и		ND				30%	
Trichloronate	ND		474	11	п		ND				30%	
Surr: Tributyl phosphate (Surr)		Rec	overy: 131%	Limits: 50-	141%	Dih	ution: 10x					
Triphenyl phosphate (Surr)			110 %	60-	130 %		n					
Duplicate (7090311-DUP2)				Prep	oared: 09/0	05/17 12:13	Analyzed:	09/05/17 19	:13			
QC Source Sample: SS-1 (A7H0678	3-01RE1)						~				- 11	
8270D OPP												
Chlorpyrifos	114000		4740	ug/kg dry	100		101000			12	30%	

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12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone 503-718-0333 Fav

Polk County Public Works

Y6318-012-17 Reported:

09/06/17 10:45

NRC 6211 N Ensign St Portland, OR 97217

Project: 117041 Project Number: 117041 Project Manager: Roman Geigle

### QUALITY CONTROL (QC) SAMPLE RESULTS

				Percen	t Dry We	ight						
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
atch 7080981 - To	otal Solids (Dry We	eight)					Soil					

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12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone

Polk County Public Works Y6318-012-17

Reported:

09/06/17 10:45

#### NRC 6211 N Ensign St Portland, OR 97217

Project: 117041 Project Number: 117041 Project Manager: Roman Geigle

#### SAMPLE PREPARATION INFORMATION

		(	Organochlorine Pesti	cides by EPA 8081B			
Prep: EPA 3546  Lab Number	Matrix	Method	Ca	D	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 7081054		Method	Sampled	Prepared			T deter
A7H0678-01RE1	Soil	EPA 8081B	08/23/17 10:05	08/24/17 16:11	10.15g/10mL	10g/5mL	1.97
A7H0678-02RE1	Soil	EPA 8081B	08/23/17 10:11	08/24/17 16:11	10.25g/10mL	10g/5mL	1.95
A7H0678-03RE1	Soil	EPA 8081B	08/23/17 10:16	08/24/17 16:11	10.11g/10mL	10g/5mL	1.98
		Organophos	sphorous Pesticides	(OPPs) by EPA 82700	(GC/MS)		
Prep: EPA 3546					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 7090311			· · · · · · · · · · · · · · · · · · ·	<del></del>	W		
A7H0678-01	Soil	8270D OPP	08/23/17 10:05	09/05/17 12:13	11.76g/5mL	10g/5mL	0.85
A7H0678-01RE1	Soil	8270D OPP	08/23/17 10:05	09/05/17.12:13	11.76g/5mL	10g/5mL	0.85
A7H0678-02RE1	Soil	8270D OPP	08/23/17 10:11	09/05/17 12:13	11.52g/5mL	10g/5mL	0.87
A7H0678-03	Soil	8270D OPP	08/23/17 10:16	09/05/17 12:13	11.76g/5mL	10g/5mL	0.85
			Percent Dr	y Weight			
Prep: Total Solids	(Dry Weight	1)			Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 7080981	6 :1	ED + 0000C	00/00/12 10 0				
A7H0678-01	Soil	EPA 8000C	08/23/17 10:05	08/25/17 13:08	1N/A/1N/A	1N/A/1N/A	NA
A7H0678-02	Soil	EPA 8000C	08/23/17 10:11	08/25/17 13:08	1N/A/1N/A	1N/A/1N/A	NA

08/23/17 10:16

DRAFT REPORT

A7H0678-03

The results provided in this report are PRELIMINARY and are subject to change based on subsequent analysis, QC validation or final data review. Please use these results with the understanding that they may have not been finalized by the laboratory

IN/A/IN/A

08/25/17 13:08

Soil

EPA 8000C

1N/A/1N/A

NA

12232 S.W. Garden Place Tigard, OR 97223 503-718-2323 Phone

Polk County Public Works Y6318-012-17

6318-012-17 Reported:

09/06/17 10:45

NRCProject:1170416211 N Ensign StProject Number:117041Portland, OR 97217Project Manager:Roman Geigle

#### Notes and Definitions

Oua.	ш	fiers:	

C-05	Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
Q-17	RPD between original and duplicate sample is outside of established control limits.
Q-18	Matrix Spike results for this extraction batch are not reported due to the high dilution necessary for analysis of the source sample.
Q-41	Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
Q-42	Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.

#### Notes and Conventions:

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry'designation are not dry weight corrected.

RPD Relative Percent Difference

MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.

WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.

Batch QC

Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.

Blank Policy Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.

For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.

Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.

QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

DRAFT REPORT

Project Manager: Roman Geigle

Project Number:

117041 117041

Project:

ATHOLOTS

ENVIRONMENTAL SERVICES Project:

Samplers Signature:

55-1 55-3 55-4

Firm: N

Signature:

Firm: Date/Time:

Relinquished By:

Revised 3/28/2011

SAMPLE ID

NRCES CONTACT: ROMAN GETELE
Folianhane 502-127-96

Roman

DATE

0.2377

TIME

1005

1011 1016 1100

6211 N. Ensign Street Portland, OR 97217 503-283-1150 FAX 503-289-6568

Job #: 17041

NO. OF CONT

P.O. #;

MATRIX

5

Date/Time: Val.

8-24-17

ANALYTICAL LABORATORY NAME / ADDRESS / PHONE

**CHAIN OF CUSTODY /** LABORATORY ANALYSIS REQUEST

Samples on Ice? Y U N U

WWTPH (Circle One) HCID Dx Gx

VOLUME

800

8TEX by EPA 80218

Page of							
PAH's by EPA 82705IM	VOC's by EPA 8260	PCB's by EPA 8082	TCLP (8) Metals	8081	6270	8151	
					1		•
				V			
				~	V		
						V	
special instructions Email results & Invoice to RG-eigle NRCC. com							
TURNAROUND TIME: 55-1,55-2,55-3-2 day							
55-4-7-10 day							

Temperature:

09/06/17 10:45 Reported:

12232 S.W. Garden Place Tigard, OR 97223

Polk County Public Works Y6318-012-17

503-718-0333 Fax 503-718-2323 Phone

The results provided in this report are PRELIMINARY and are subject to change haved on subsequent analysis. QC validation or final data review. Hease use these results with the understanding that they may have not been finalized by the laboratory

DRAFT REPORT

DRAFT REPORT, DATA SUBJECT TO CHANGE Report is complete only if it includes Calscience / Eurofins 8151 Data. Page 20 of 33

Polk County Public Works Y6318-012-17 Figard, OR 97223 503-718-2323 Phone

503-718-0333 Fax

 NRC
 Project
 117041

 6211 N Ensign St
 Project Number:
 117041
 Reported:

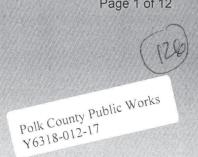
 Portland, OR 97217
 Project Manager:
 Roman Geigle
 09/06/17 10:45

APEX LABS COOLER RECEIPT FORM
Client: VR Element WO#: A7 HDLe 78
Project/Project #: 1704
Delivery info: Date/Time Received: 8-24-17 @ 1417 By: MK
Delivered by: Apex X Client ESS FedEx UPS Swift Scnvoy SDS Other
Cooler Inspection Inspected by: MI : 824-17 @ 1451)
Chain of Custody Included? Yes X No Custody Seals? Yes No X
Signed/Dated by Client? Yes \( \times \) No
Signed/Dated by Apex? Yes X No
Cooler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6 Cooler #7
Temperature (deg. C)
Received on Ice? (V/N)
Temp. Blanks? (NN) 3,3
Ice Type: (Gel/Real/Other)
Ice Type: (Gel/Real/Other)       Condition:     Cho.
Cooler out of temp? (YK) Possible reason why:  If some coolers are in temp and some out, were green dot applied to out of temperature samples? Yes/No/NA  Samples Inspection: Inspected by:
Bottle Labels/COCs agree? Yes No Comments:
Containers/Volumes Received Appropriate for Analysis? Yes \( \Lambda \) No \( \tag{Comments} \)
Do VOA Vials have Visible Headspace? Yes No NA X
Water Samples: pH Checked and Appropriate (except VOAs): Yes No NA X
Additional Information:
Labeled by: Witness: Cooler Inspected by: See Project Contact Form: Y
Vm W Vm

DRAFT REPORT



Calscience





# WORK ORDER NUMBER: 17-08-2176

The difference is service



AIR SOIL WATER MARINE CHEMISTRY

**Analytical Report For** 

Client: APEX Laboratories, LLC

Client Project Name: A7H0678

**Attention:** Darwin Thomas

12232 SW Garden Place Portland, OR 97223-8246

ResultLink >

Email your PM )

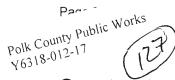
Approved for release on 09/12/2017 by:

Lori Thompson Project Manager

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

CA ELAP ID: 2944 | ACLASS DoD-ELAP ID: ADE-1864 (ISO/IEC 17025-2005) | CSDLAC ID: 10109

#### Calscience



Contents

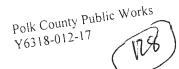
Client Project Name: Work Order Number:

A7H0678 17-08-2176

1 ,	Work Order Narrative	3
2	Sample Summary	4
3	Client Sample Data	5
4	Quality Control Sample Data	6
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6	Glossary of Terms and Qualifiers	S
7	Chain-of-Custody/Sample Receipt Form	10



#### **Work Order Narrative**



Work Order: 17-08-2176

Page 1 of 1

#### Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 08/26/17. They were assigned to Work Order 17-08-2176.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

#### **Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

#### **Quality Control:**

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

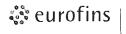
#### Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

#### Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



### Sample Summary

Polk County Public Works Y6318-012-17

		(t)
Client: APEX Laboratories, LLC	Work Order:	17-08-2176
12232 SW Garden Place	Project Name:	A7H0678
Portland, OR 97223-8246	PO Number:	
	Date/Time Received:	08/26/17 09:30
	Number of Containers:	1
Attn: Darwin Thomas		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
SS-4	17-08-2176-1	08/23/17 11:00	1	Solid

### Calscience

### **Analytical Report**

Polk County Public Works

Y6318-012-17

APEX Laboratories, LLC

12232 SW Garden Place

Portland, OR 97223-8246

Date Received:

Work Order:

Preparation:

Method: Units:

08/26/17

17-08-2176

**EPA 8151A** 

**EPA 8151A** 

ug/kg

Project: A7H0678

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS-4	17-08-2176-1-A	08/23/17 11:00	Solid	GC 40	09/01/17	09/07/17 17:44	170901L12

Comment(s): - Results are reported on a dry weight basis.

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag

		, ·		, ,,		0
Parameter		Result	<u>RL</u>	MDL	<u>DF</u>	Qualifiers
Dalapon		ND	420000	120000	1000	
Dicamba		ND	17000	2100	1000	
MCPP		ND	17000000	5300000	1000	
MCPA		ND	17000000	3500000	1000	
Dichlorprop	1,00	ND 11AM	170000	28000	1000	
2,4-D	49/189	320000	170000	24000	1000	
2,4,5-TP (Silvex)		ND	17000	4000	1000	
2,4,5-T		ND	17000	1900	1000	
2,4-DB		ND	170000	27000	1000	
Dinoseb		ND	84000	8600	1000	
Surrogate		Rec. (%)	Control Limits	Qualifiers		
2,4-Dichlorophenylacetic acid		0	44-146	1,2,6		

Method Blank	095-01-033-1499	N/A Sol	id GC 40	09/01/17	09/06/17 17090 15:08	1L12
Comment(s):	- Results were evaluated to the MDL (DL), conce	entrations >= to the N	MDL (DL) but < RL	(LOQ), if found, are	qualified with a "J" flag.	
<u>Parameter</u>	Result	RL	MDL	DF	Qualifiers	
Dalapon	ND	250	73	1.00		
Dicamba	ND	10	1.2	1.00		
MCPP	ND	10000	3200	1.00		

MCPP	ND	10000	3200	1.00
MCPA	ND	10000	2100	1.00
Dichlorprop	ND	100	17	1.00
2,4-D	ND	100	14	1.00
2,4,5-TP (Silvex)	ND	10	2.3	1.00
2,4,5-T	ND	10	1.1	1.00
2,4-DB	ND	100	16	1.00
Dinoseb	ND	50	5.1	1.00

Control Limits Qualifiers Surrogate Rec. (%) 2,4-Dichlorophenylacetic acid 44-146

RL: Reporting Limit.

DF: Dilution Factor.

MDL: Method Detection Limit.

Report is complete only if it includes Calscience / Eurofins 8151 Data. Page 26 of 33



Quality Control - Spike/Spike Duplicate
Calscience

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Polk County Public Works Y6318-012-17

APEX Laboratories, LLC

12232 SW Garden Place

Portland, OR 97223-8246

Project: A7H0678

Date Received:

Work Order:

Preparation:

Method:

08/26/17

17-08-2176

EPA 8151A

EPA 8151A

Page 1 of 1

Quality Control Sample ID	Туре		Matrix	Inst	rument	Date Prepared	Date Ana	lyzed	MS/MSD Bat	ch Number
17-09-0001-17	Sample		Solid	GC	40	09/01/17	09/07/17	15:25	170901S12	
17-09-0001-17	Matrix Spike		Solid	GC	40	09/01/17	09/06/17	23:38	170901S12	
17-09-0001-17	Matrix Spike	Duplicate	Solid	GC	40	09/01/17	09/07/17	00:02	170901S12	
Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
2,4-D	375.2	400.0	814.1	110	674.3	75	32-146	19	0-37	
2,4,5-T	71.86	40.00	88.47	42	72.71	2	27-147	20	0-37	
2,4-DB	ND	400.0	484.1	121	417.3	104	31-151	15	0-42	



### **Quality Control - LCS**

Polk County Public Works Y6318-012-17

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APEX Laboratories, LLC

12232 SW Garden Place

Portland, OR 97223-8246

Project: A7H0678

Date Received:

Work Order:

Preparation:

Method:

08/26/17

17-08-2176

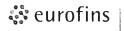
EPA 8151A

EPA 8151A

Page 1 of 1

Quality Control Sample ID	Туре	Matrix	Instrument [	Date Prepared Date A	Analyzed LCS Ba	tch Number
095-01-033-1499	LCS	Solid	GC 40	09/01/17 09/07/	17 00:25 170901	L12
Parameter		Spike Added	Conc. Recovere	ed LCS %Rec.	%Rec. CL	Qualifiers
2,4-D		400.0	317.0	79	49-127	
2,4,5-T		40.00	28.00	70	31-145	
2.4-DB		400.0	351.0	88	48-132	





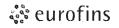
### Sample Analysis Summary Report

Polk County Public Y6318-012-17

Work Order: 17-08-2176				Page 1 of 1
Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 8151A	EPA 8151A	944	GC 40	1



Location 1: 7440 Lincoln Way, Garden Grove, CA 92841



### Glossary of Terms and Qualifiers

Polk County Public Works Y6318-012-17

Work Order: 17-08-2176

Calscience

Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
В	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
Е	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
ПD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH .	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
Χ	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

concentrations.

#### SUBCONTRACT ORDER

### **Apex Laboratories** A7H0678

17-08-2176



#### SENDING LABORATORY:

Apex Laboratories 12232 S.W. Garden Place Tigard, OR 97223 Phone: (503) 718-2323

Fax: (503) 718-0333

Project Manager: Darwin Thomas

#### RECEIVING LABORATORY:

Eurofins\_CalScience 7440 Lincoln Way Garden Grove, CA 92841-1427

Phone: (714) 895-5494

Fax: (714) 894-7501

Polk County Public Works Y6318-012-17

Sample Name: SS-4			Soil	Sampled:	08/23/17 11:00	(A7H0678-04)
Analysis		Due	Expires	(	Comments	
8151A Herbicides (SUB) +OW  Containers Supplied: (B)4 oz Glass Jar	44117	-08/28/17-17:00 9/7/17	09/06/17 11:00			

Standard TAT

\* please run dry weight w/ analysis \*

Fed Ex (Shipper)

Fed Ex (Shipper)

Received By

Received By

Released By

0930

Date

Polk County Public Works Y6318-012-17

ORIGIN ID:BNOA (503) SAMPLE GONTROL APEX LABS 12232 SW GARDEN PLACE (503) 718-2323

SHIP DATE: 25AUG17 ACTWGT: 25.00 LB CAD: 4716258/INET3920

BILL SENDER

TO DANIELLE GONSMAN CALSCIENCE

7440 LINCOLN WAY

GARDEN GROVE CA 92841 (714) 895-5494 REF:

SATURDAY 9:30A FIRST OVERNIGHT

TRK# 7701 1808 6050

92841 CA-US SNA



FedEx Ship Manager - Print Your Label(s)

Calscience

WORK ORDER NUMBER: 17-08-12 of

SAMPLE RECEIPT CHECKLIST

COOLER	l of	1
COULER	UF	1

DATE:	80	Ī	>6	1	2017
		•		•	

CLIENT:	APEX			DAT	re: 08 /	>61	/ 2017
Thermometer II  Sample(s  Sample(s) re	D: SC6 (CF: +0.2°C); T ) outside temperature c ) outside temperature c	O°C, not frozen except sedim emperature (w/o CF):	°C (w/ CF): y:) lled on same day o		Blank [Polk Coly 46318.  Checked	anty Pul 012-17	plic .
	AL: I Present and Intact I Present and Intact	☐ Present but Not Intact☐ Present but Not Intact☐	☑ Not Present ☑ Not Present	□ N/A □ N/A	Checked Checked	-	202 202
COC document  ☐ Sampling	dy (COC) document(s) (s) received complete date   Sampling time	received with samples	ontainers			No	N/A
Sampler's name Sample contain Sample contain	e indicated on COC er label(s) consistent w er(s) intact and in good	ith COC			0		
Sufficient volume/mass for analyses requested  Samples received within holding time  Aqueous samples for certain analyses received within 15-minute holding time  □ pH □ Residual Chlorine □ Dissolved Sulfide □ Dissolved Oxygen					Ø		
Proper preservation chemical(s) noted on COC and/or sample container  Unpreserved aqueous sample(s) received for certain analyses  Uolatile Organics □ Total Metals □ Dissolved Metals							
Container(s) for certain analysis free of headspace  ☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)  ☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)  Tedlar™ bag(s) free of condensation							K K
CONTAINER TYPE:       (Trip Blank Lot Number:							
Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag  Preservative: b = buffered, f = filtered, h = HCl, n = HNO <sub>3</sub> , na = NaOH, na <sub>2</sub> = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , p = H <sub>3</sub> PO <sub>4</sub> , Labeled/Checked by:  s = H <sub>2</sub> SO <sub>4</sub> , u = ultra-pure, x = Na <sub>2</sub> SO <sub>3</sub> +NaHSO <sub>4</sub> .H <sub>2</sub> O <sub>1</sub> , znna = Zn (CH <sub>3</sub> CO <sub>2</sub> ) <sub>2</sub> + NaOH  Reviewed by: 77%							

Paris green publisher Polly 46.
Chromoaled Copper assenate Polk County Public Works Y6318-012-17 - how plugged - unknown - Confainer none D'd